FCC Test Report

Issued Date : Jan. 02, 2014
Project No. : 1311149
Equipment : IPC
Model Name : AMOS-820; CPT-1000; AMOS-820-P

Applicant : VIA Technologies, Inc.
Address : 1F, 531, Zhongzheng Rd. Xindian District, New Taipei City 231 Taiwan

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Nov. 15, 2013
Date of Test: Nov. 15, 2013 ~ Dec. 31, 2013

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Testing Laboratory
0659

Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
-	Initial Issue.	Jan. 02, 2014

1. CERTIFICATION

Equipment :	IPC
Brand Name :	VIA
Model Name :	AMOS-820; CPT-1000; AMOS-820-P
Applicant :	VIA Technologies, Inc.
Date of Test :	Nov. 15, 2013 ~ Dec. 31, 2013
Standards :	FCC Part 15, Subpart B: 2012 Class A
	ICES-003 Issue 5: 2012 Class A
	CAN/CSA CISPR 22-10 Class A
	CISPR 22: 2008 Class A
	ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCE-1-1311149) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part 15, Subpart B: 2012 ICES-003 Issue 5: 2012 CAN/CSA CISPR 22-10 CISPR 22: 2008	Conducted emission	Class A	PASS	
	Radiated emission Below 1 GHz	Class A	PASS	
	Radiated emission Above 1 GHz	Class A	PASS	**NOTE (2)**

NOTE:

(1) ”N/A” denotes test is not applicable in this Test Report.

(2) If the EUT’s max operating frequency does not exceed 108 MHz, the test will not be performed.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C03: (VCCI RN: C-4461)
B1, No. 37, Lane 365, YangGuang St., NeiHu District 114, Taipei, Taiwan.

Radiated emission Test (Below 1 GHz):

OS02: (VCCI RN: R-2669; FCC RN: 95335; FCC DN: TW1010)
No.132-1, Ln. 329, Sec. 2, Balian Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC/ Industry Canada rules and for reference only.

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95**%.
The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted emission test:

Test Site	Measurement Frequency Range	U，(dB)	NOTE
C03	150 kHz ~ 30 MHz	1.94	

B. Radiated emission test:

Test Site	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
OS02	30 MHz ~ 200 MHz	V	2.48	
	30 MHz ~ 200 MHz	H	2.16	
	200 MHz ~ 1, 000 MHz	V	2.50	
	200 MHz ~ 1, 000 MHz	H	2.66	

Test Site	Item	Measurement Frequency Range		Uncertainty	NOTE
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB	
			200 - 1000MHz	3.11 dB	
			1 - 18GHz	3.97 dB	
			18 - 40GHz	4.01 dB	
		Vertical Polarization	30 - 200MHz	3.22 dB	
			200 - 1000MHz	3.24 dB	
			1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above.
These are our U_{lab} values in CISPR 16-4-2 terminology.
Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR}, as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB
Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR}.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>IPC</td></tr>
<tr><td>Brand Name</td><td>VIA</td></tr>
<tr><td>Model Name</td><td>AMOS-820; CPT-1000; AMOS-820-P</td></tr>
<tr><td>OEM Brand/Model Name</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>There are three models based on similar electrical circuit except the difference of list below:

<table>
<tr><td rowspan="2">Model Name</td><td colspan="2">Differences</td></tr>
<tr><td>Power Board</td><td>POE</td></tr>
<tr><td>AMOS-820</td><td>X</td><td>X</td></tr>
<tr><td>AMOS-820-P</td><td>X</td><td>O</td></tr>
<tr><td>CPT-1000</td><td>O</td><td>O</td></tr>
</table>

All the above models were evaluated and used for final testing and collecting test data included in this report.</td></tr>
<tr><td>Product Description</td><td>The EUT is an IPC.
More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Power Source</td><td>A. DC Voltage supplied from External Power Supply.
B. DC Voltage supplied from PoE.</td></tr>
<tr><td>Power Rating</td><td>A. 1. EUT Rating: I/P DC 12V
2. External Power Supply:
(1) DELTA, ADP-18TB A (only for AMOS-820 and AMOS-820-P)
I/P: AC 100-240V 0.6A 50-60Hz / O/P: DC 12V 1.5A
(2) FSP, FSP060-DBAB1 (only for AMOS-820 and AMOS-820-P)
I/P: AC 100-240V 1.5A 50-60Hz / O/P: DC 12V 5A MAX (60W MAX)
(3) DELTA, ADP-36JH B (only for CPT-1000)
I/P: AC 100-240V 1A 50-60Hz / O/P: DC 12V 3A
B. PoE: I/P DC 48V(only for CPT-1000 and AMOS-820-P)</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
<tr><td>Products Covered</td><td>1 * CPU: 1.0GHz Freescale i.MX 6Quad ARM Cortex-A9
1 * RAM: 1GB DDR3
1 * External Power Supply:
(1) DELTA, ADP-18TB A (only for AMOS-820 and AMOS-820-P)
(2) FSP, FSP060-DBAB1(only for AMOS-820 and AMOS-820-P)
(3) DELTA, ADP-36JH B (only for CPT-1000)</td></tr>
<tr><td>EUT Modification(s)</td><td>N/A</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

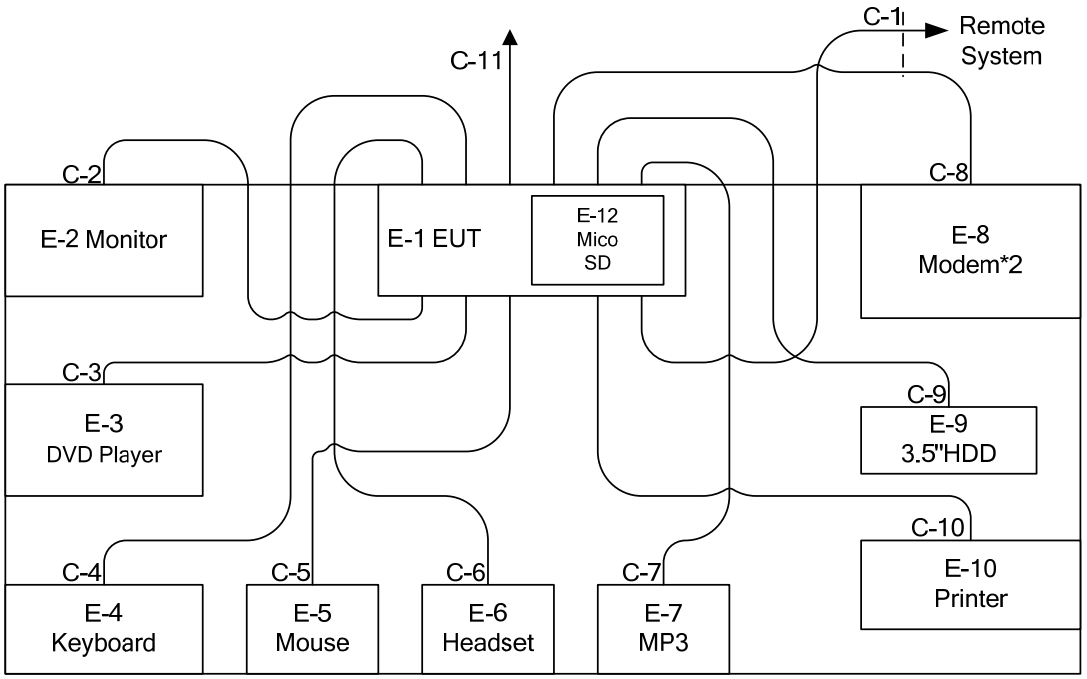
Pretest Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)
Mode 2	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)
Mode 3	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)
Mode 4	FULL SYSTEM (CPT-1000) (PoE)
Mode 5	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)
Mode 6	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)
Mode 7	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)

Conducted emission test	
Final Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)
Mode 2	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)
Mode 3	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)
Mode 5	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)
Mode 6	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)

Radiated emission test	
Final Test Mode	Description
Mode 1	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)
Mode 2	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)
Mode 3	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)
Mode 4	FULL SYSTEM (CPT-1000) (PoE)
Mode 5	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)
Mode 6	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)
Mode 7	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)

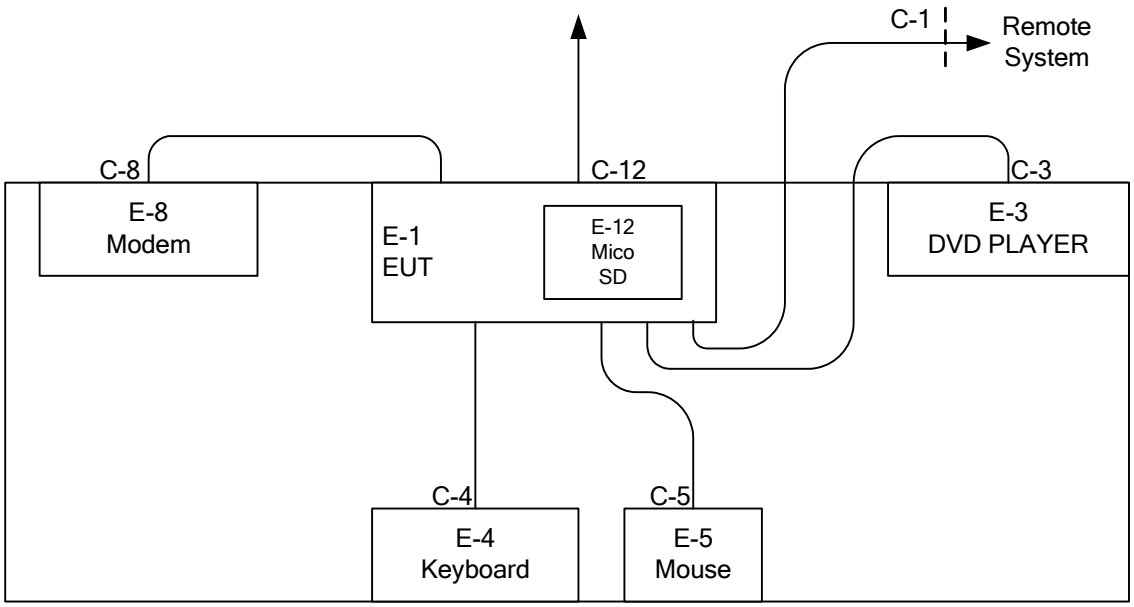
3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode 1 / Mode 2



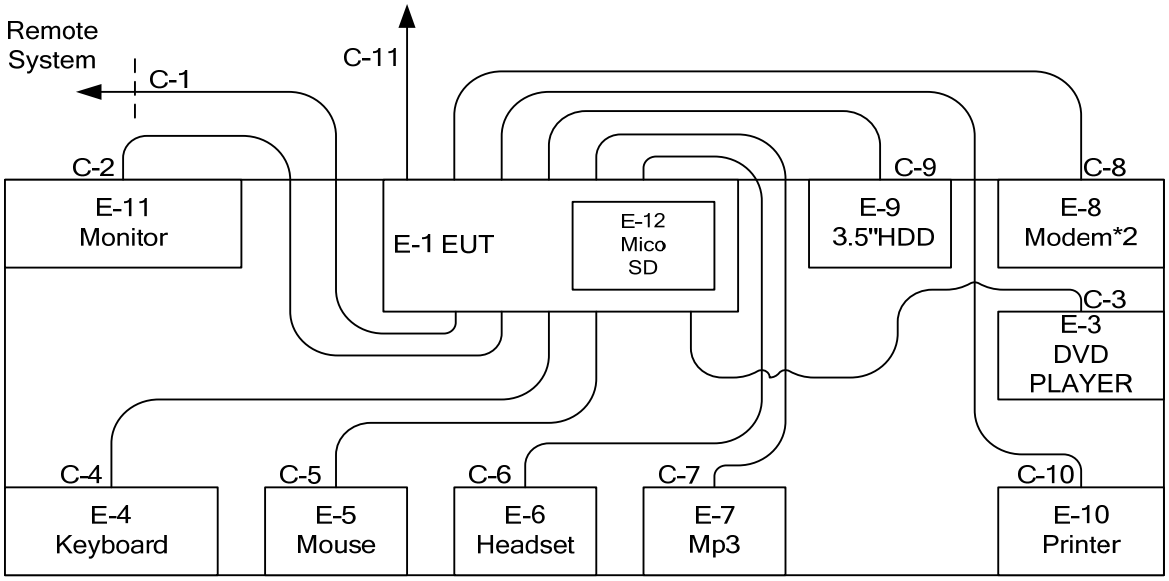
C-1 RJ-45 Cable
C-2 HDMI Cable
C-3 Video Cable
C-4 USB Cable
C-5 USB Cable
C-6 Audio Cable*2
C-7 Audio Cable
C-8 RS232 Cable*2
C-9 USB Cable
C-10 USB Cable
C-11 RS232 Cable

Mode 3 / Mode 4



C-1 RJ-45 Cable
C-3 Video Cable
C-4 USB Cable
C-5 USB Cable
C-8 RS-232 Cable
C-12 Power Cable*9

Mode 5 / Mode 6 / Mode 7



C-1 RJ-45 Cable
C-2 HDMI Cable
C-3 Vedio Cable
C-4 USB Cable
C-5 USB Cable
C-6 Audio Cable*2
C-7 Audio Cable
C-8 RS-232 Cable*2
C-9 USB Cable
C-10 USB Cable
C-11 RS-232 Cable

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	IPC	VIA	AMOS-820; CPT-1000; AMOS-820-P	N/A	N/A	EUT
E-2	24” LCD Monitor	DELL	2408WFPb	DOC	071863-11	
E-3	CD/DVD Player	SONY	DVP-NS975V	N/A	2030851 14W	
E-4	USB K/B	DELL	L50U	DOC	CN-0H9F99-65890 -17P-06WP-A01	
E-5	USB Mouse	DELL	MS111-L	DOC	CN-09RRC7-44 751-17J-OH1F	
E-6	Compact Earphone Mic	CJ	CJ-323	N/A	N/A	
E-7	USB Flash/MP3 Player	DELL	HV04T	DOC	95NY781	
E-8	Modem	ACEEX	DM-1414V	DOC	8041708	
E-9	3.5” External Hard Drive	WD	WDBACW00 10HBK-SESN	DOC	WCAV5J749731	
E-10	Printer	HP	VCVRA-1004	DOC	CN17511HHK	
E-11	24” LCD Monitor	DELL	U2410f	DOC	CN-OJ257M-72 872-09J-067L	
E-12	Micro SD Card	Sandisk	SDSDQ-512	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10M	
C-2	YES	NO	1.8M	
C-3	NO	NO	1.5M	
C-4	YES	NO	1.7M	
C-5	YES	NO	1.7M	
C-6	NO	NO	1.8M	
C-7	NO	NO	1.7M	
C-8	YES	NO	1.7M	
C-9	YES	NO	1.2M	
C-10	YES	NO	1.7M	
C-11	YES	NO	1.7M	
C-12	NO	NO	1M	

Note:

(1) The support equipment was authorized by Declaration of Conformity (DOC).

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMITS (FREQUENCY RANGE 150 KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 - 5.0	73.00	60.00	56.00	46.00
5.0 - 30.0	73.00	60.00	60.00	50.00

NOTE:

(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value – Limit Value

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101051	Jun. 16, 2014
2	Test Cable	TIMES	CFD300-NL	C03	Jun. 16, 2014
3	EMI Test Receiver	R&S	ESCI	100080	Apr. 01, 2014
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Remark: “N/A” denotes No Model Name, No Serial No. or No Calibration specified.

4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

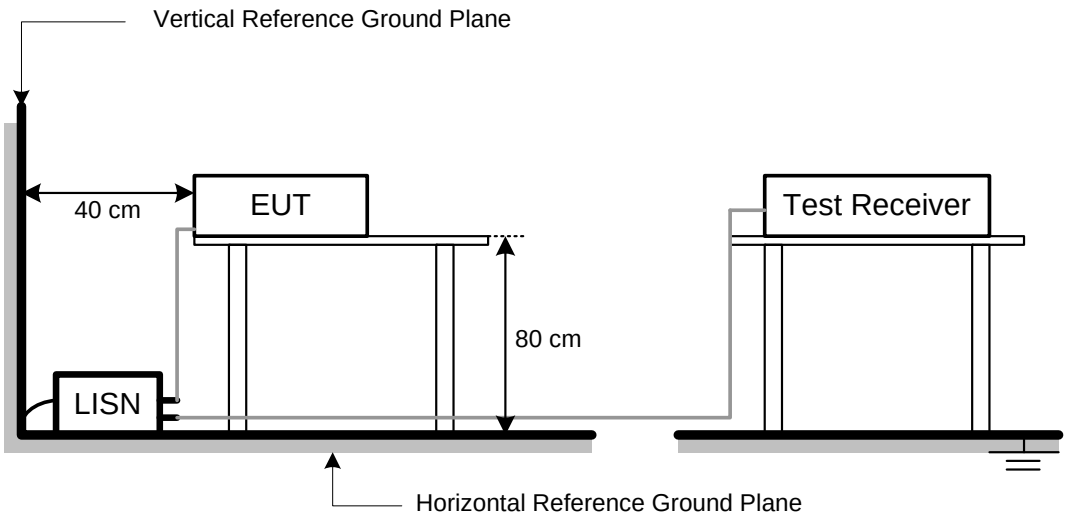
NOTE:

a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (6 dB Bandwidth).
b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn‘t perform.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



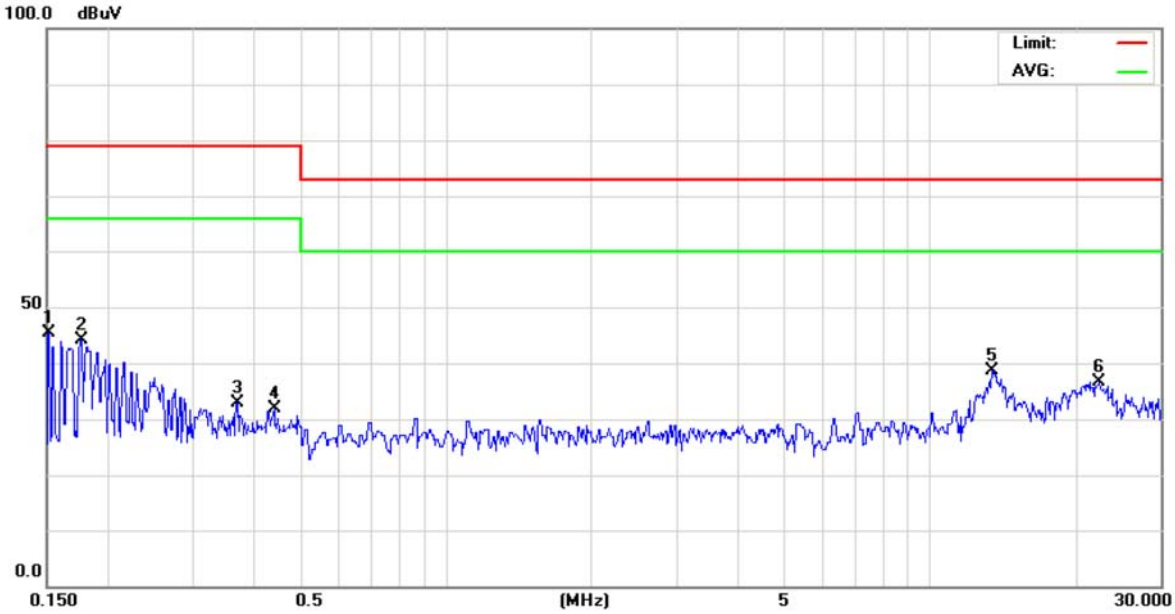
4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn.
As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

4.1.7 TEST RESULTS

EUT	IPC	Model Name	AMOS-820
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

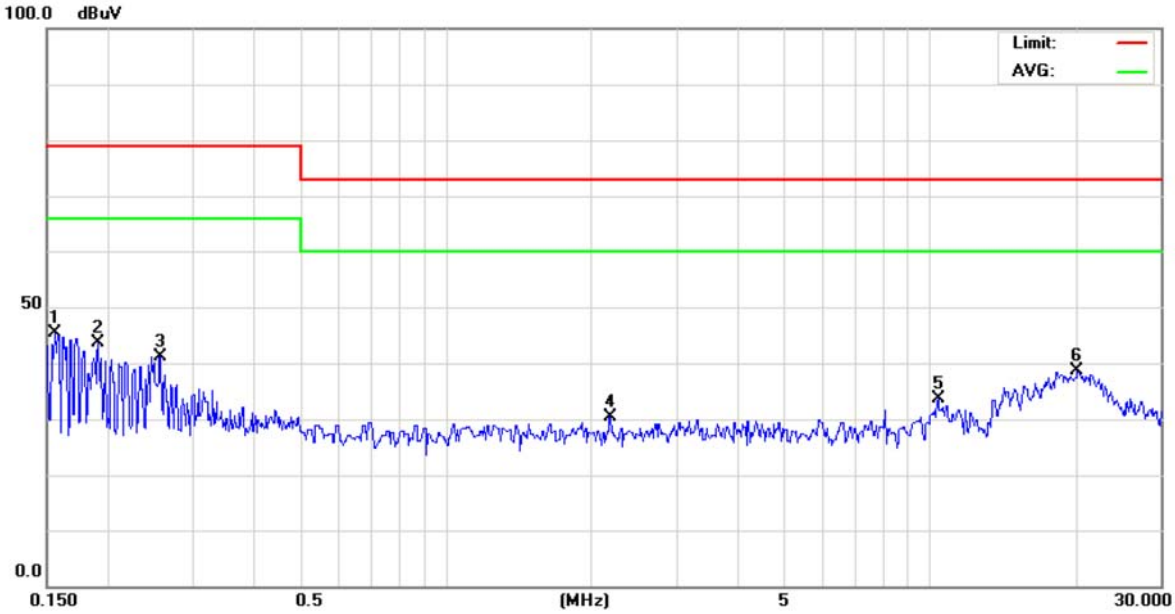
Phase: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1514	35.71	9.64	45.35	79.00	-33.65	peak	
2		0.1759	34.25	9.88	44.13	79.00	-34.87	peak	
3		0.3698	23.20	9.64	32.84	79.00	-46.16	peak	
4		0.4419	22.17	9.69	31.86	79.00	-47.14	peak	
5		13.4000	28.90	9.68	38.58	73.00	-34.42	peak	
6		22.3500	26.83	9.82	36.65	73.00	-36.35	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

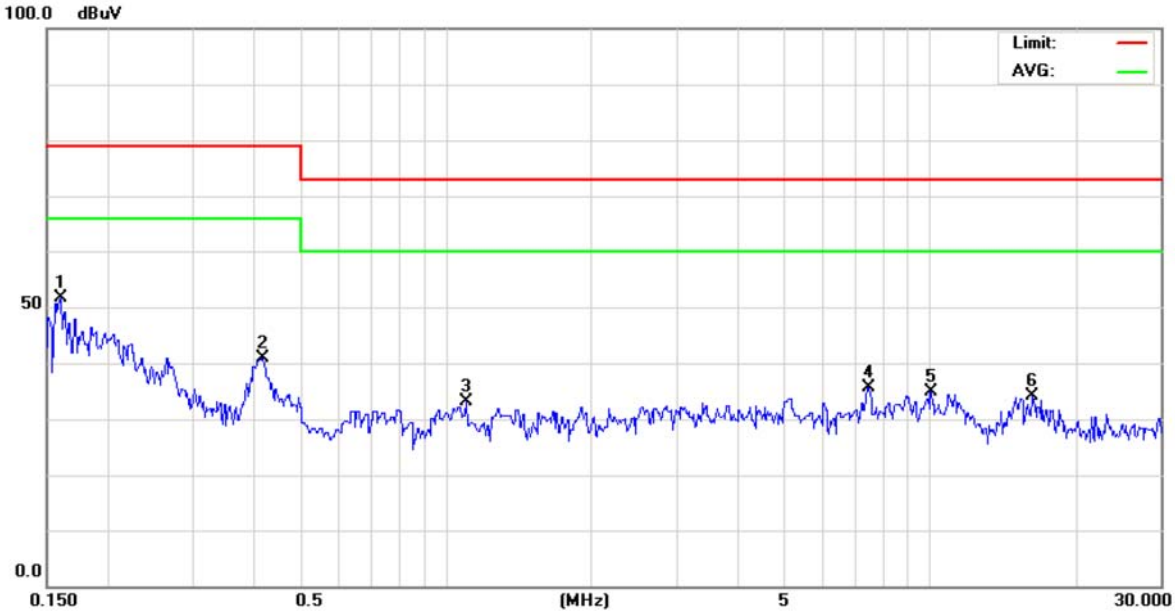
Phase: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1556	35.58	9.75	45.33	79.00	-33.67	peak	
2		0.1913	33.64	10.09	43.73	79.00	-35.27	peak	
3		0.2564	31.20	9.86	41.06	79.00	-37.94	peak	
4		2.1829	20.87	9.61	30.48	73.00	-42.52	peak	
5		10.3500	23.81	9.70	33.51	73.00	-39.49	peak	
6		20.1500	28.64	9.89	38.53	73.00	-34.47	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

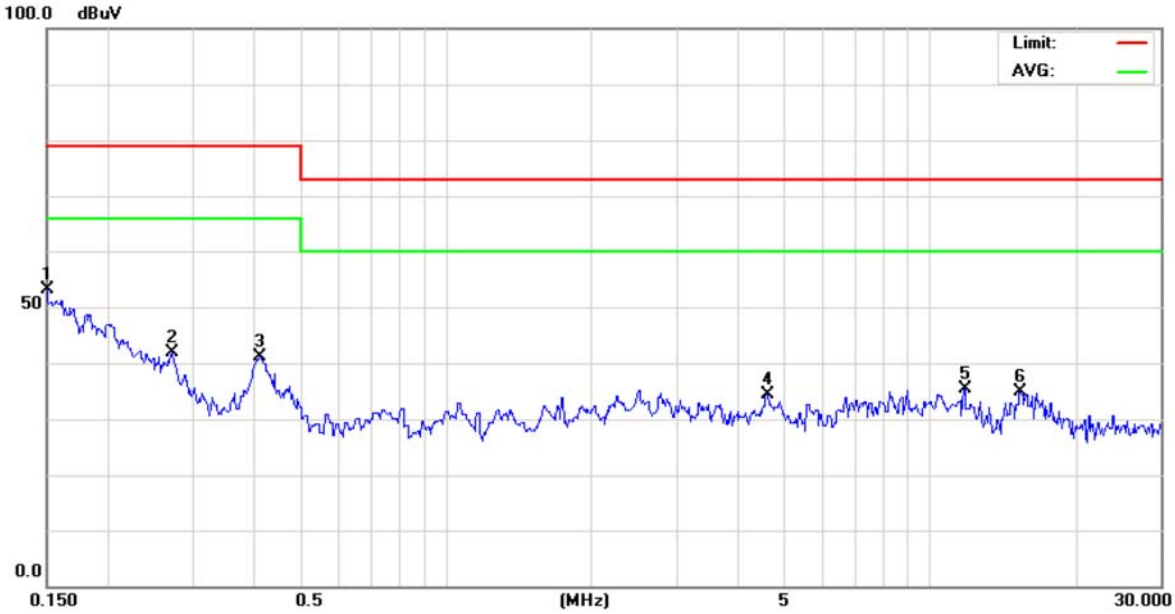
Phase: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1604	41.96	9.73	51.69	79.00	-27.31	peak	
2		0.4174	31.29	9.68	40.97	79.00	-38.03	peak	
3		1.1030	23.55	9.59	33.14	73.00	-39.86	peak	
4		7.4500	25.97	9.62	35.59	73.00	-37.41	peak	
5		10.0500	25.35	9.64	34.99	73.00	-38.01	peak	
6		16.3000	24.48	9.74	34.22	73.00	-38.78	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

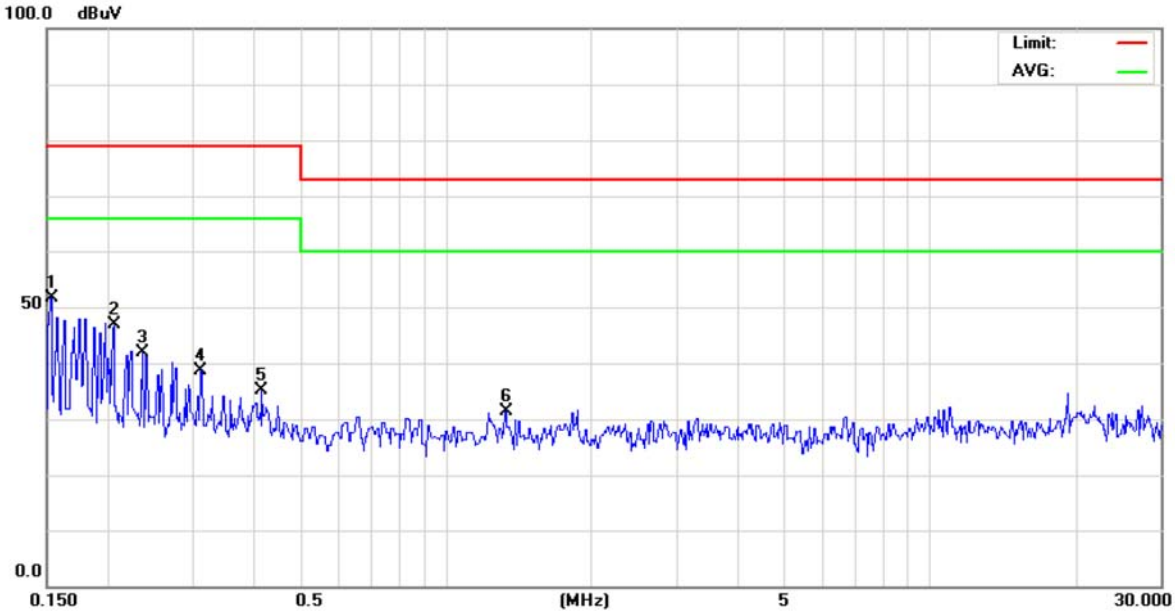
Phase: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	43.38	9.70	53.08	79.00	-25.92	peak	
2		0.2717	32.12	9.77	41.89	79.00	-37.11	peak	
3		0.4118	31.44	9.73	41.17	79.00	-37.83	peak	
4		4.6040	24.65	9.67	34.32	73.00	-38.68	peak	
5		11.7500	25.60	9.72	35.32	73.00	-37.68	peak	
6		15.3500	25.06	9.78	34.84	73.00	-38.16	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

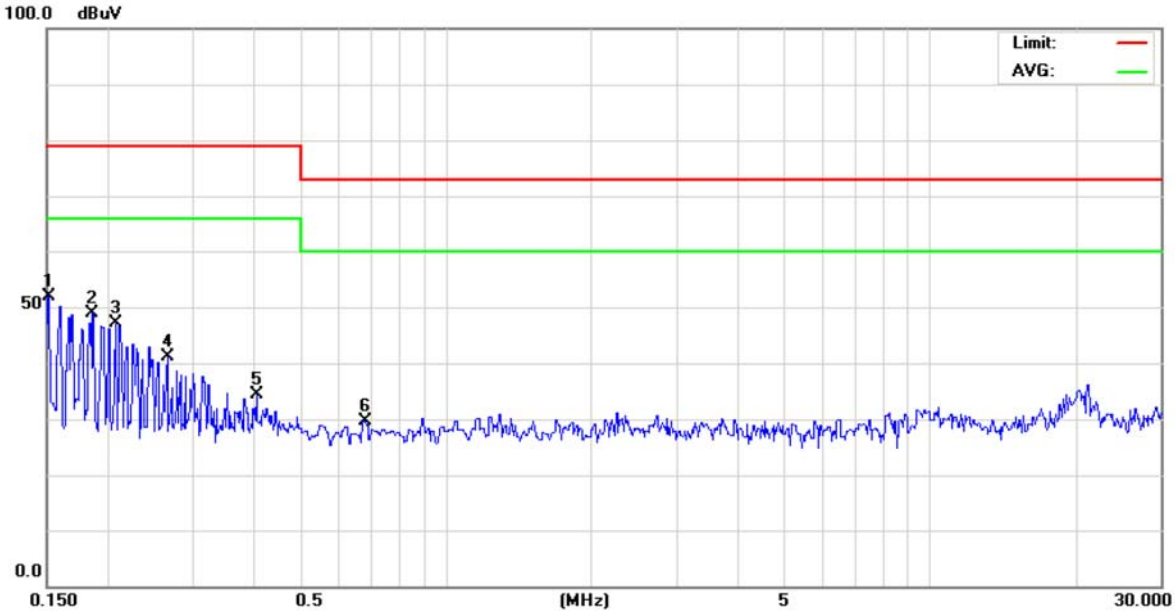
Phase: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1528	41.92	9.66	51.58	79.00	-27.42	peak	
2		0.2060	36.71	10.08	46.79	79.00	-32.21	peak	
3		0.2361	31.94	9.91	41.85	79.00	-37.15	peak	
4		0.3116	28.96	9.57	38.53	79.00	-40.47	peak	
5		0.4167	25.48	9.68	35.16	79.00	-43.84	peak	
6		1.3280	21.80	9.59	31.39	73.00	-41.61	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

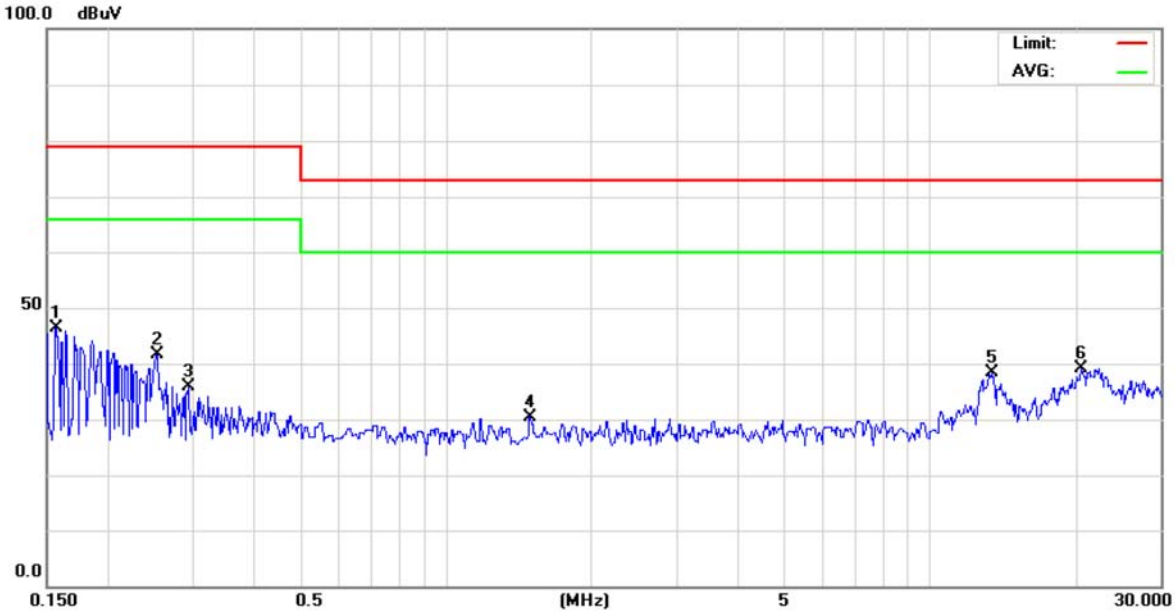
Phase: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1514	42.27	9.71	51.98	79.00	-27.02	peak	
2		0.1864	38.93	10.04	48.97	79.00	-30.03	peak	
3		0.2081	36.96	10.13	47.09	79.00	-31.91	peak	
4		0.2655	31.35	9.81	41.16	79.00	-37.84	peak	
5		0.4055	24.55	9.73	34.28	79.00	-44.72	peak	
6		0.6800	19.97	9.73	29.70	73.00	-43.30	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

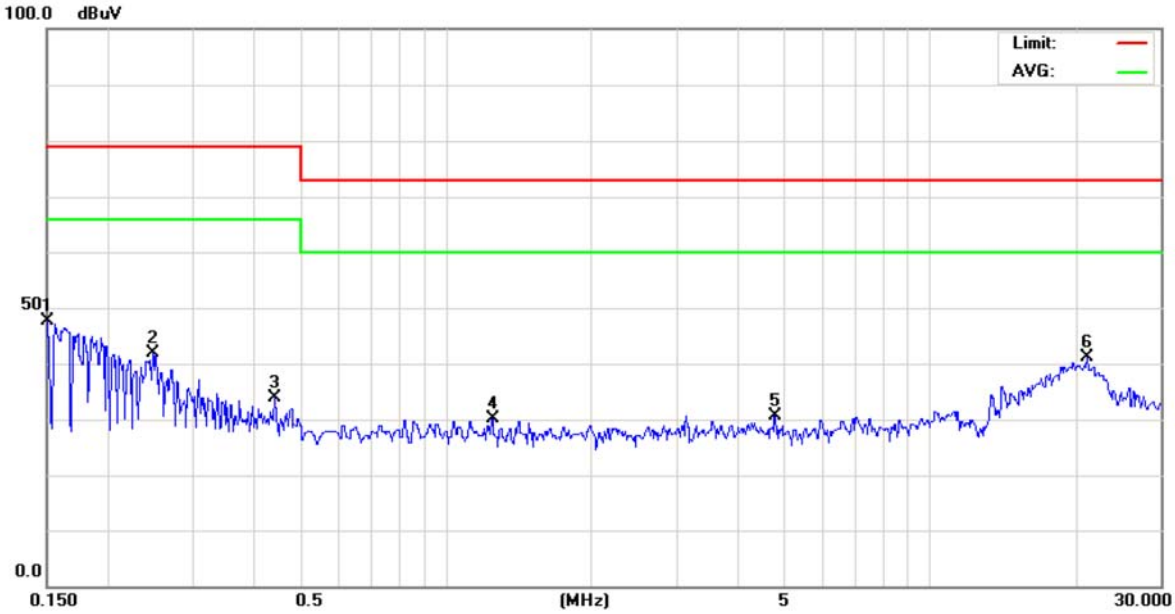
Phase: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1563	36.60	9.69	46.29	79.00	-32.71	peak	
2		0.2522	31.70	9.82	41.52	79.00	-37.48	peak	
3		0.2935	26.22	9.59	35.81	79.00	-43.19	peak	
4		1.4900	20.87	9.58	30.45	73.00	-42.55	peak	
5		13.4000	28.78	9.68	38.46	73.00	-34.54	peak	
6		20.5000	29.35	9.82	39.17	73.00	-33.83	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

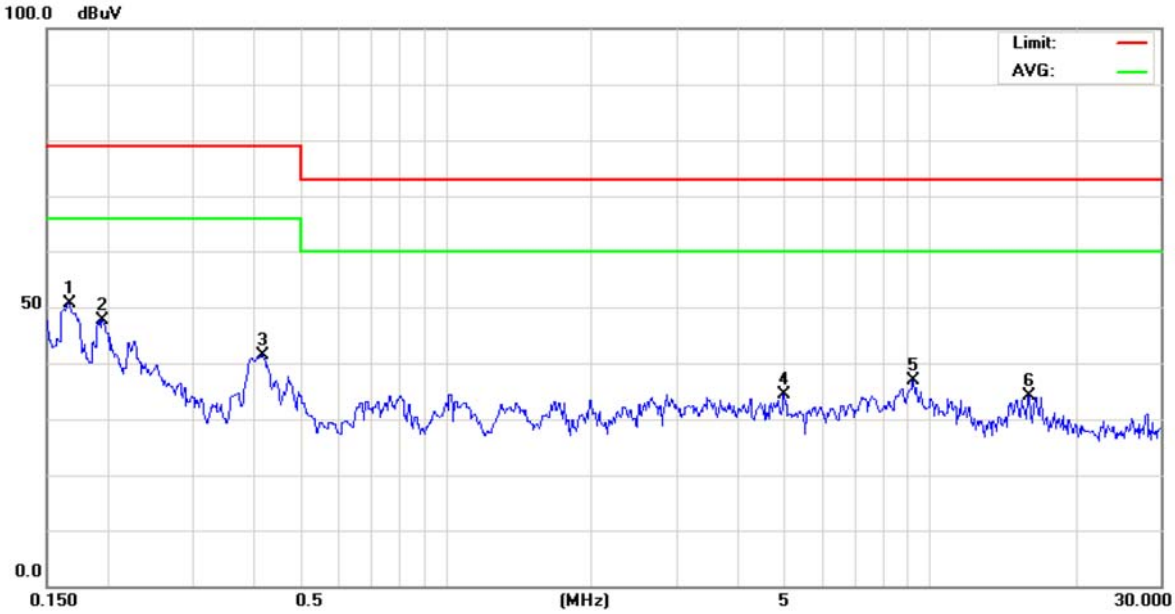
Phase: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	37.95	9.70	47.65	79.00	-31.35	peak	
2		0.2480	32.08	9.91	41.99	79.00	-37.01	peak	
3		0.4426	24.03	9.75	33.78	79.00	-45.22	peak	
4		1.2470	20.37	9.65	30.02	73.00	-42.98	peak	
5		4.7750	20.92	9.67	30.59	73.00	-42.41	peak	
6		21.1000	31.25	9.89	41.14	73.00	-31.86	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

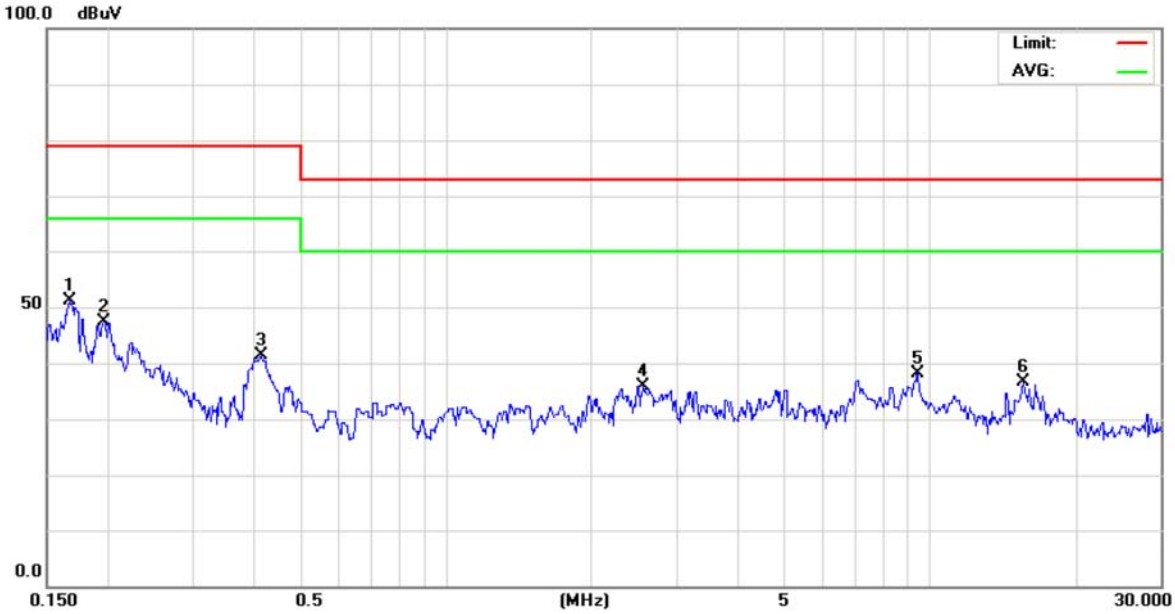
Phase: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1661	40.78	9.79	50.57	79.00	-28.43	peak	
2		0.1948	37.50	10.06	47.56	79.00	-31.44	peak	
3		0.4174	31.81	9.68	41.49	79.00	-37.51	peak	
4		5.0000	24.82	9.61	34.43	73.00	-38.57	peak	
5		9.2500	27.24	9.63	36.87	73.00	-36.13	peak	
6		16.0000	24.44	9.72	34.16	73.00	-38.84	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	24°C	Relative Humidity	48%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

Phase: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1675	41.16	9.87	51.03	79.00	-27.97	peak	
2		0.1962	37.25	10.13	47.38	79.00	-31.62	peak	
3		0.4139	31.63	9.74	41.37	79.00	-37.63	peak	
4		2.5520	26.37	9.63	36.00	73.00	-37.00	peak	
5		9.4500	28.33	9.69	38.02	73.00	-34.98	peak	
6		15.6000	26.73	9.78	36.51	73.00	-36.49	peak	

4.2 RADIATED EMISSION TEST

4.2.1 LIMITS

Below 1 GHz

FREQUENCY (MHz)	Class A (at 10m) dBuV/m	Class B (at 10m) dBuV/m
30 - 230	40	30
230 - 1000	47	37

NOTE:

(1) The limit for radiated test was performed according to as following:
FCC Part 15, Subpart B: 2012; ICES-003 Issue 5: 2012; CAN/CSA-CISPR 22-10;
CISPR 22: 2008.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m) = 20log Emission level (uV/m).
(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

Above 1 GHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class A (dBuV/m) (at 10m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	69.5	49.5

FREQUENCY (MHz)	Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

NOTE:

(1) The limit for radiated test was performed according to as following:
FCC Part 15, Subpart B: 2012; ICES-003 Issue 5: 2012.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 MEASUREMENT INSTRUMENTS LIST

Below 1 GHz:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3173	Nov. 28, 2014
2	Pre-Amplifier	Anritsu	MH648A	M98457	Jun. 02, 2014
3	Test Cable	TIMES	LMR-400	10M-OS01	Jun. 02, 2014
4	Test Cable	TIMES	LMR-400	OS02	Jun. 02, 2014
5	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2014
6	System Controller (OS02)	CT	SC100	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Measurement Software	EZ	EZ_EMC (Version NB-02A)	N/A	N/A

Above 1 GHz:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Horn Antenna (1G)	Schwarzbeck	BBHA 9120 D	9120D-325	Jun. 15, 2014
2	Pre_Amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
3	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	1M	May. 13, 2014
4	Microflex Cable	AISI	S104-SMAP-1	10M	May. 15, 2014
5	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	3M	May. 13, 2014
6	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2014
7	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Remark: “N/A” denotes No Model Name, No Serial No. or No Calibration specified.

4.2.3 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
c. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE: (Below 1 GHz)

a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz.
b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform.

NOTE: (Above 1 GHz)

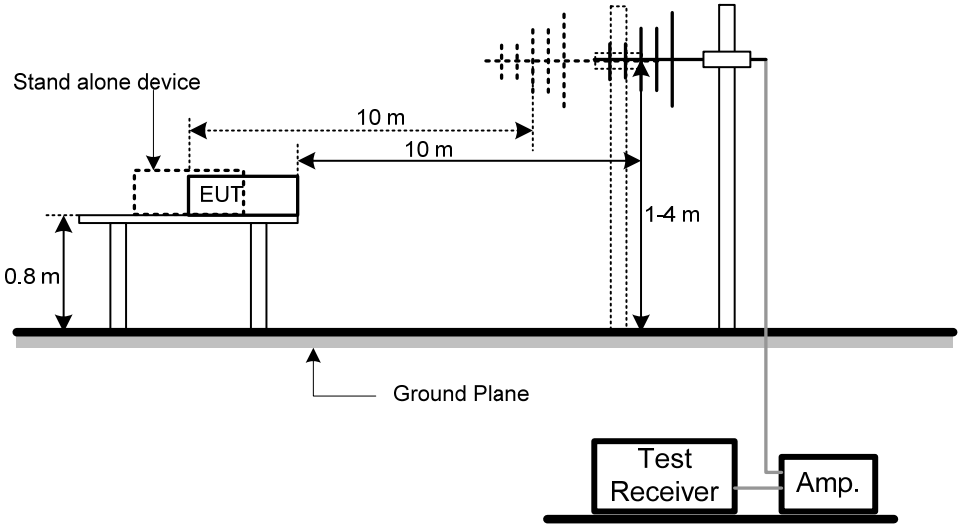
a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz.
   Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz.
b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform.

4.2.4 DEVIATION FROM TEST STANDARD

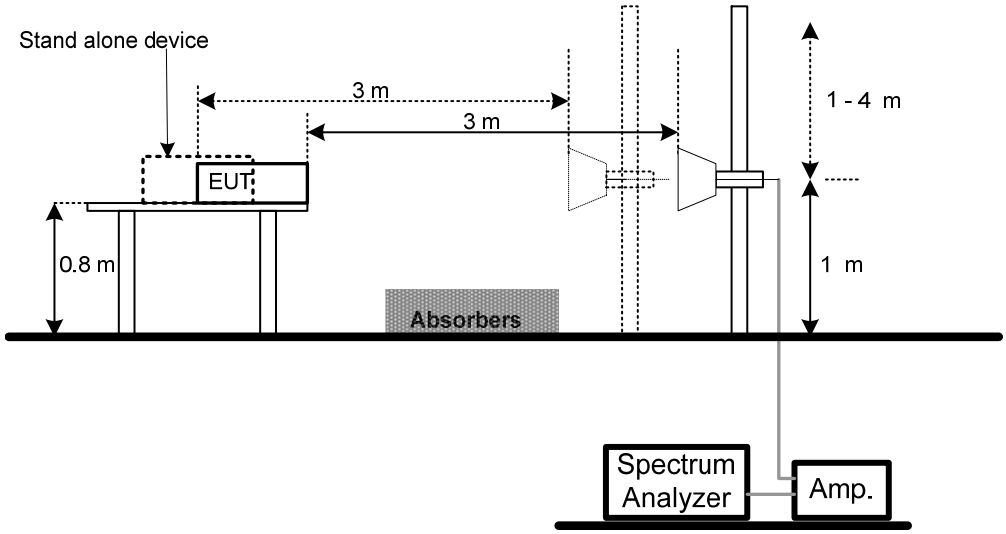
No deviation

4.2.5 TEST SETUP

Below 1 GHz



Above 1 GHz



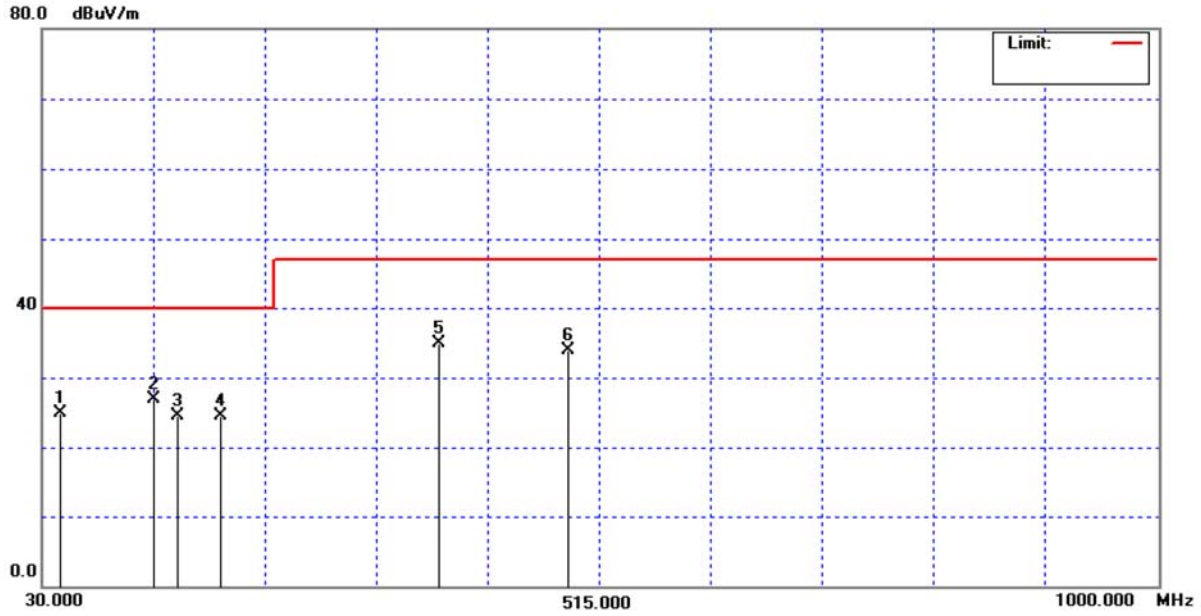
4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.7 TEST RESULTS-BELOW 1 GHZ

EUT	IPC	Model Name	AMOS-820
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

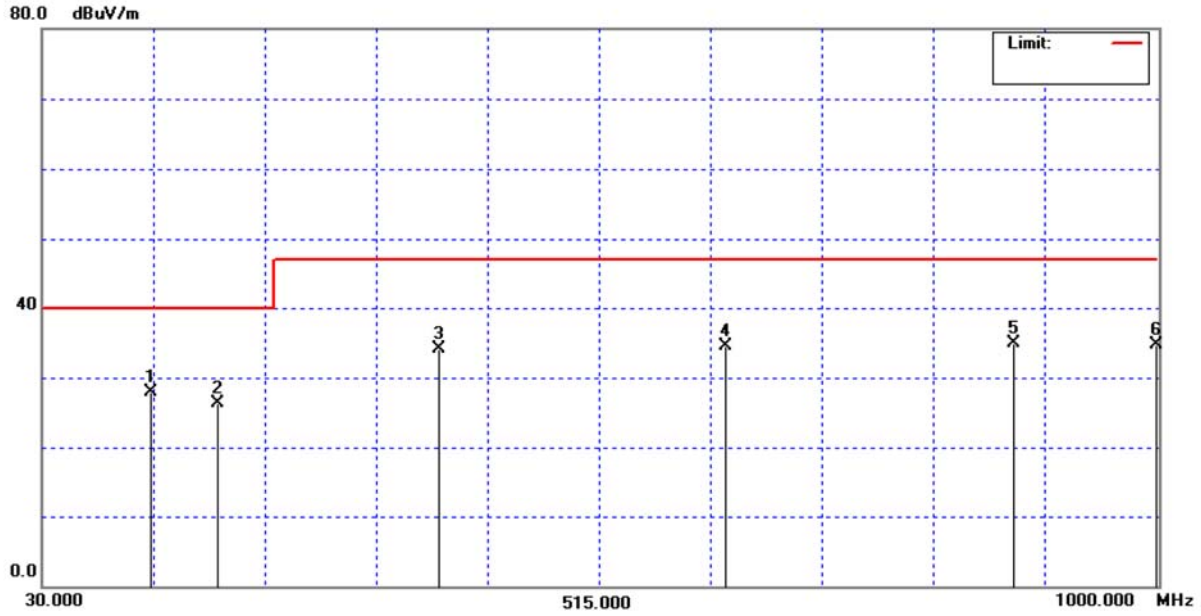
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		44.3760	30.10	-5.26	24.84	40.00	-15.16	QP	
2		125.0880	30.90	-4.07	26.83	40.00	-13.17	QP	
3		148.3020	28.11	-3.69	24.42	40.00	-15.58	peak	
4		184.3400	30.50	-6.06	24.44	40.00	-15.56	QP	
5	*	375.0160	37.10	-2.12	34.98	47.00	-12.02	QP	
6		486.0850	33.13	0.73	33.86	47.00	-13.14	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

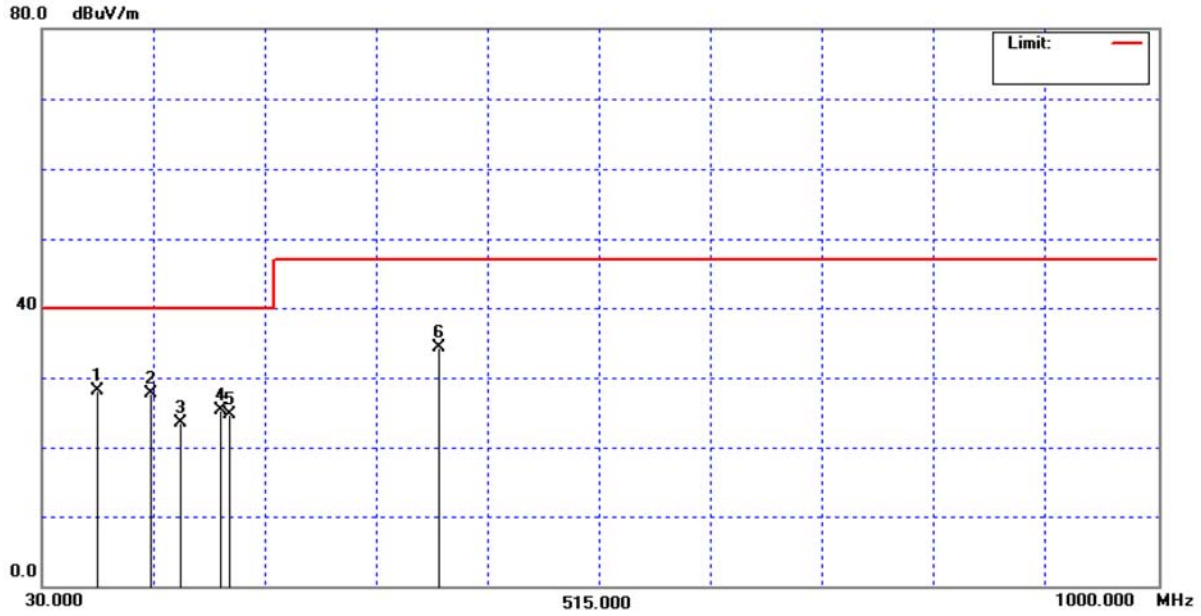
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		125.0020	31.90	-4.07	27.83	40.00	-12.17	QP	
2		181.4800	31.99	-5.66	26.33	40.00	-13.67	peak	
3		375.0130	36.20	-2.12	34.08	47.00	-12.92	QP	
4		625.0270	30.55	3.89	34.44	47.00	-12.56	peak	
5	*	875.0320	27.00	8.00	35.00	47.00	-12.00	QP	
6		1000.000	24.30	10.42	34.72	47.00	-12.28	QP	

EUT	IPC	Model Name	AMOS-820
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

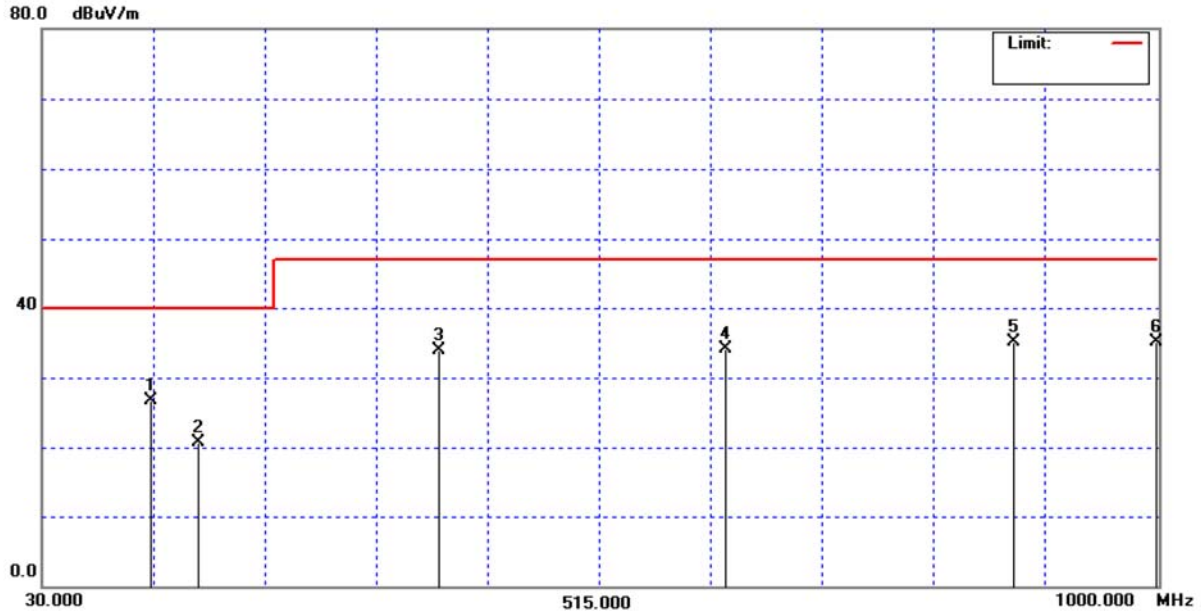
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	77.9940	34.99	-6.97	28.02	40.00	-11.98	peak	
2		125.0230	31.80	-4.07	27.73	40.00	-12.27	QP	
3		149.8460	27.25	-3.71	23.54	40.00	-16.46	peak	
4		184.3340	31.30	-6.06	25.24	40.00	-14.76	QP	
5		191.9200	31.66	-7.00	24.66	40.00	-15.34	peak	
6		375.0160	36.50	-2.12	34.38	47.00	-12.62	QP	

EUT	IPC	Model Name	AMOS-820
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

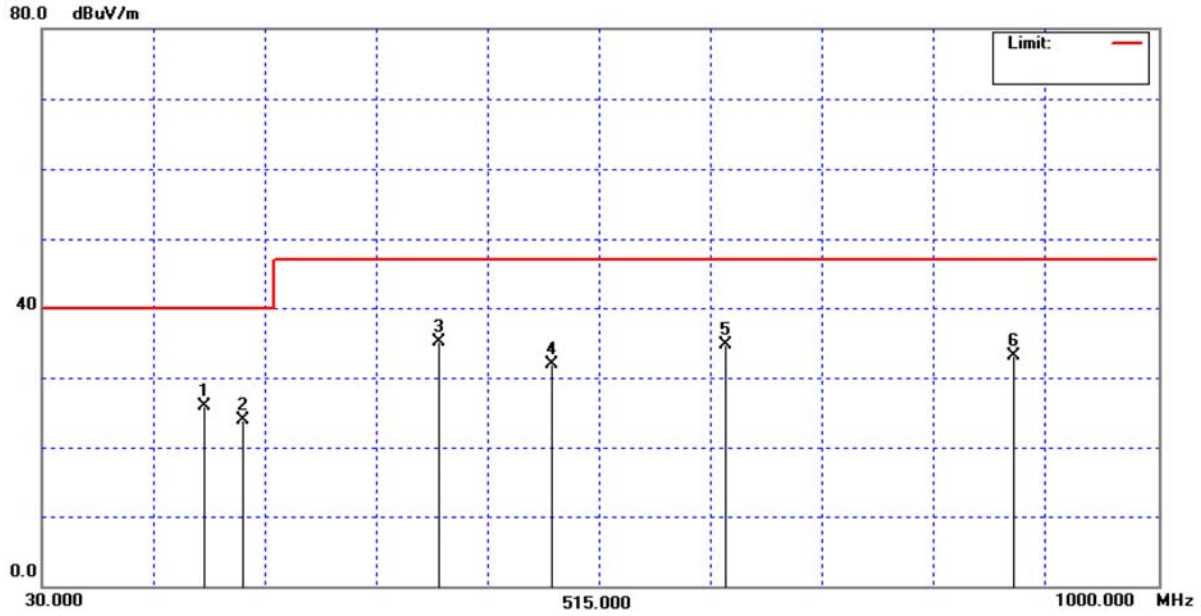
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		125.0060	30.80	-4.07	26.73	40.00	-13.27	QP	
2		164.5140	24.56	-3.85	20.71	40.00	-19.29	peak	
3		375.0170	36.04	-2.12	33.92	47.00	-13.08	peak	
4		625.0220	30.30	3.89	34.19	47.00	-12.81	QP	
5		875.0260	27.15	8.00	35.15	47.00	-11.85	peak	
6	*	1000.000	24.74	10.42	35.16	47.00	-11.84	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

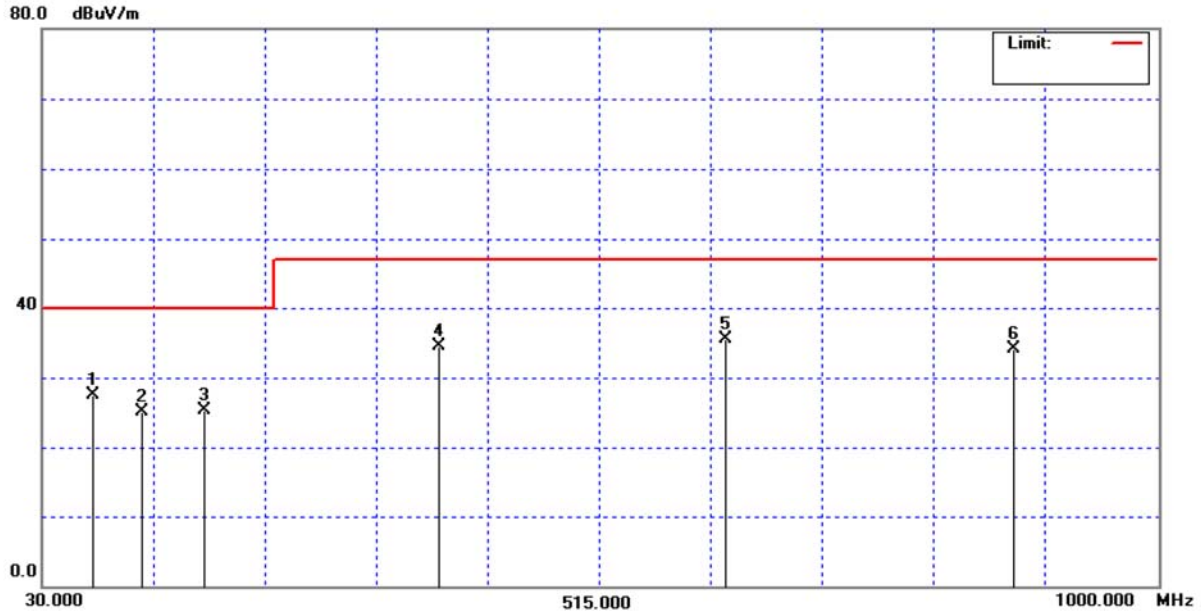
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		170.6900	30.01	-4.20	25.81	40.00	-14.19	peak	
2		203.1400	31.44	-7.56	23.88	40.00	-16.12	peak	
3	*	375.0120	37.30	-2.12	35.18	47.00	-11.82	QP	
4		473.8300	31.39	0.57	31.96	47.00	-15.04	peak	
5		625.0230	30.90	3.89	34.79	47.00	-12.21	QP	
6		875.0300	25.20	8.00	33.20	47.00	-13.80	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

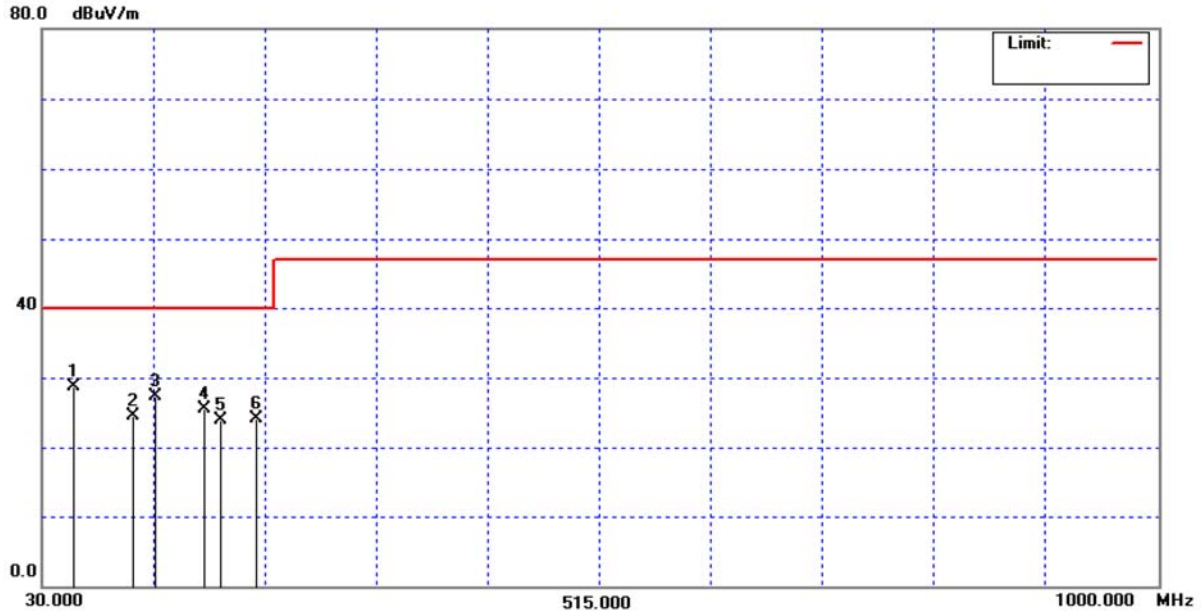
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		74.0040	33.80	-6.24	27.56	40.00	-12.44	peak	
2		116.2640	29.75	-4.58	25.17	40.00	-14.83	peak	
3		169.9180	29.51	-4.12	25.39	40.00	-14.61	peak	
4		375.0180	36.60	-2.12	34.48	47.00	-12.52	QP	
5	*	625.0240	31.70	3.89	35.59	47.00	-11.41	QP	
6		875.0370	26.15	8.00	34.15	47.00	-12.85	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	25°C	Relative Humidity	76%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM (CPT-1000) (PoE)		

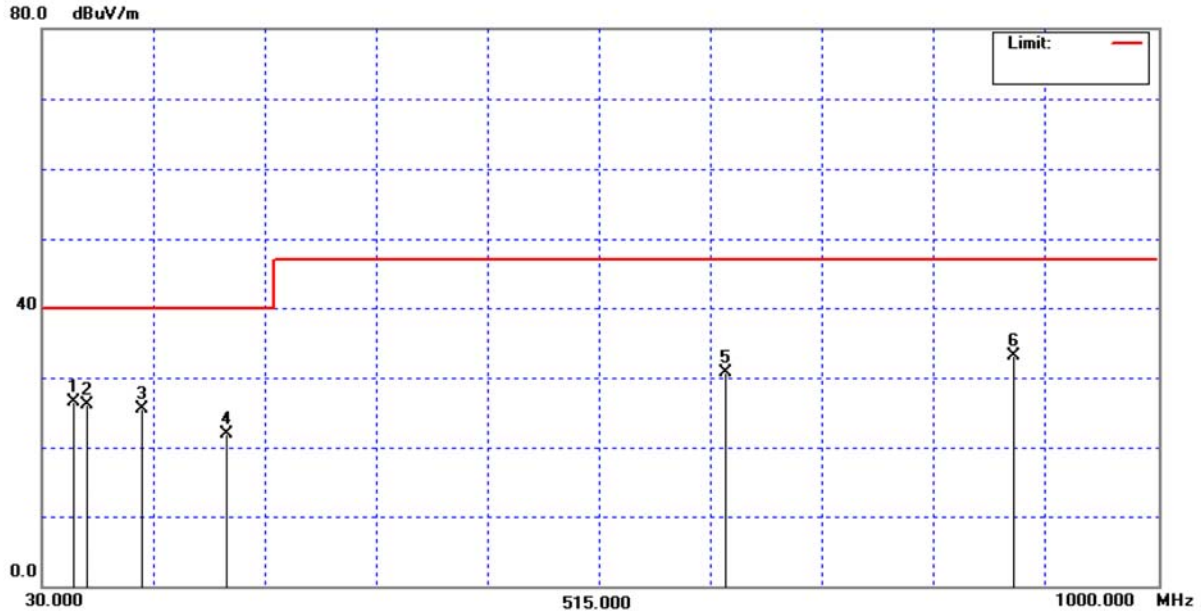
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.7960	33.60	-4.89	28.71	40.00	-11.29	QP	
2		108.6240	29.83	-5.23	24.60	40.00	-15.40	peak	
3		127.6040	31.26	-3.94	27.32	40.00	-12.68	peak	
4		170.5040	29.76	-4.18	25.58	40.00	-14.42	peak	
5		184.5100	30.04	-6.08	23.96	40.00	-16.04	peak	
6		215.9900	31.23	-7.14	24.09	40.00	-15.91	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	25°C	Relative Humidity	76%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM (CPT-1000) (PoE)		

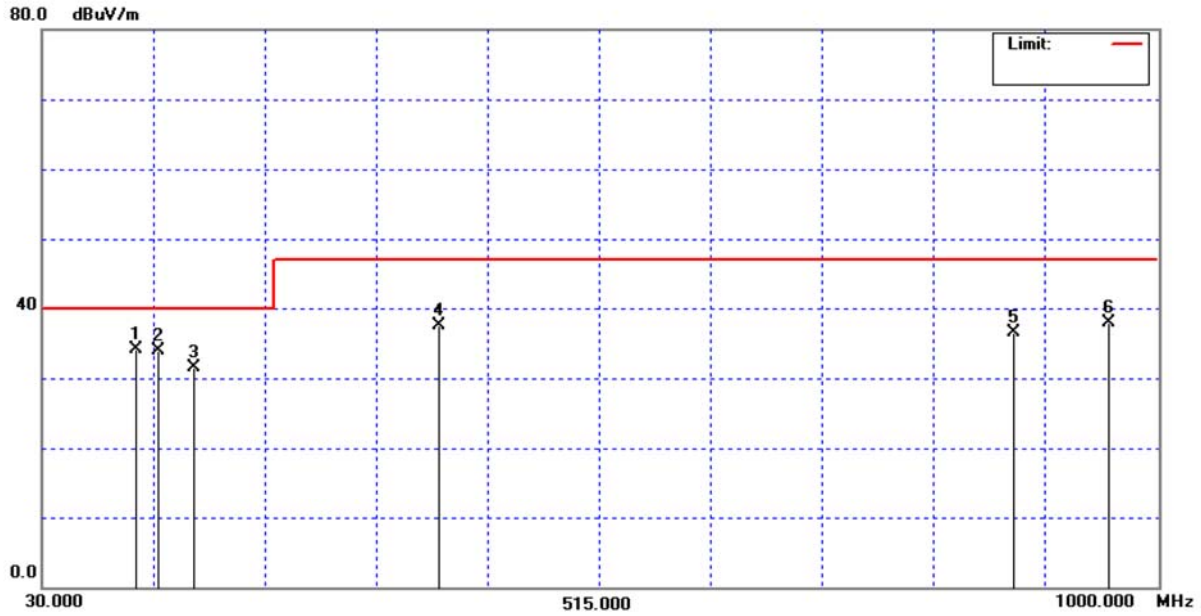
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.6500	31.50	-4.90	26.60	40.00	-13.40	QP	
2		67.2780	31.40	-5.32	26.08	40.00	-13.92	peak	
3		116.0610	30.12	-4.59	25.53	40.00	-14.47	peak	
4		190.1730	28.71	-6.85	21.86	40.00	-18.14	peak	
5		625.0210	26.72	3.89	30.61	47.00	-16.39	peak	
6		875.0220	25.16	8.00	33.16	47.00	-13.84	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

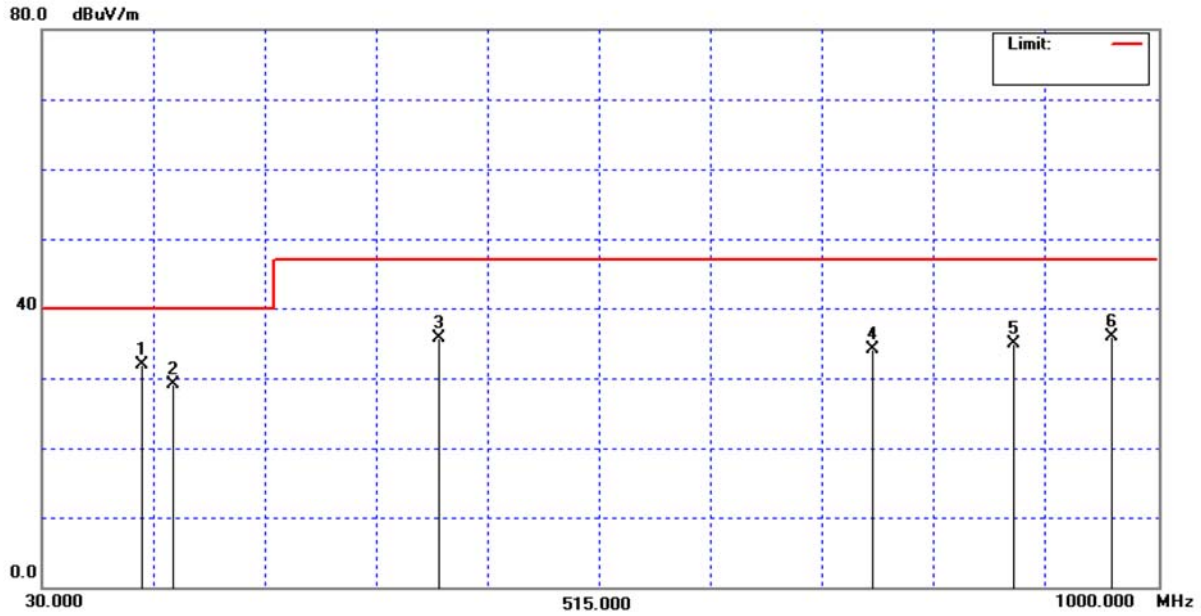
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	111.4280	38.97	-4.92	34.05	40.00	-5.95	peak	
2		130.1240	37.66	-3.82	33.84	40.00	-6.16	peak	
3		161.3660	35.18	-3.71	31.47	40.00	-8.53	peak	
4		374.5040	39.72	-2.14	37.58	47.00	-9.42	peak	
5		874.5000	28.43	7.99	36.42	47.00	-10.58	peak	
6		959.2000	28.08	9.77	37.85	47.00	-9.15	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

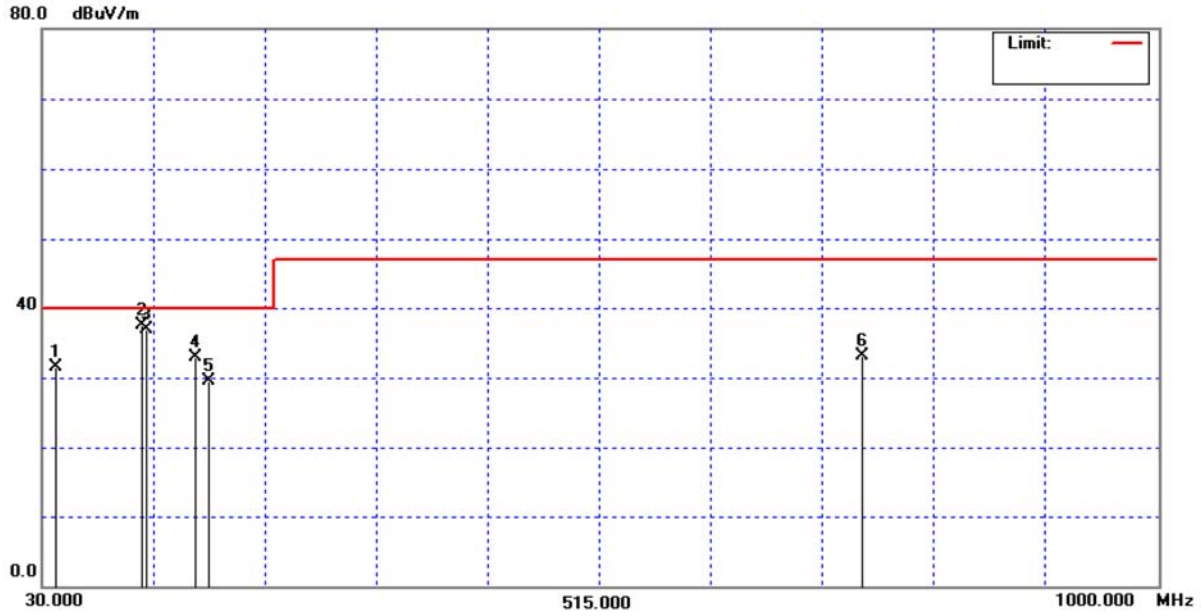
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	115.6100	36.48	-4.62	31.86	40.00	-8.14	peak	
2		142.6800	32.77	-3.58	29.19	40.00	-10.81	peak	
3		374.4400	37.92	-2.14	35.78	47.00	-11.22	peak	
4		752.9800	27.65	6.39	34.04	47.00	-12.96	peak	
5		874.5000	26.85	7.99	34.84	47.00	-12.16	peak	
6		959.5200	26.11	9.77	35.88	47.00	-11.12	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

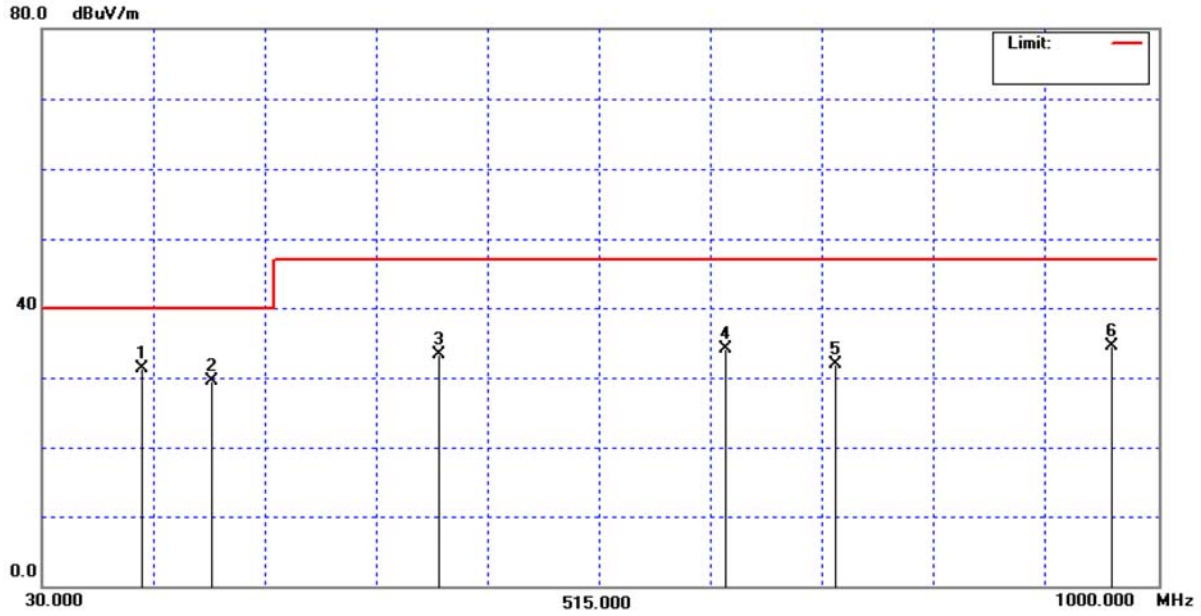
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.0200	37.24	-5.66	31.58	40.00	-8.42	peak	
2	*	115.8560	42.16	-4.61	37.55	40.00	-2.45	peak	
3		120.5300	41.12	-4.30	36.82	40.00	-3.18	peak	
4		163.0880	36.70	-3.79	32.91	40.00	-7.09	peak	
5		173.9120	34.14	-4.62	29.52	40.00	-10.48	peak	
6		741.9940	26.95	6.09	33.04	47.00	-13.96	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

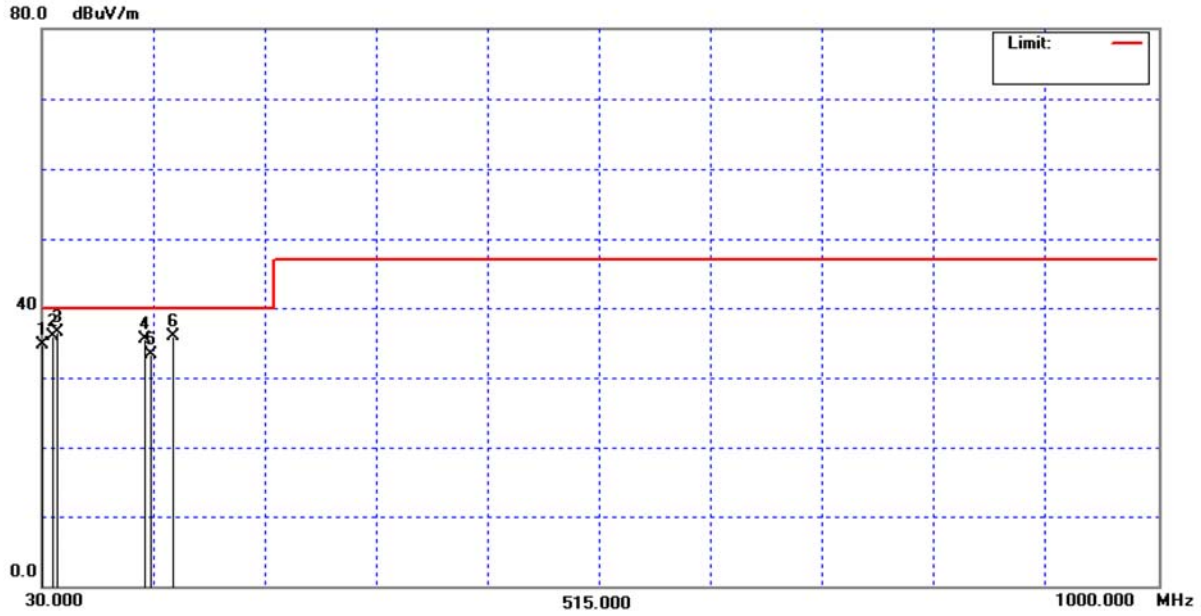
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	115.8560	35.95	-4.61	31.34	40.00	-8.66	peak	
2		177.1100	34.46	-5.05	29.41	40.00	-10.59	peak	
3		374.4700	35.41	-2.14	33.27	47.00	-13.73	peak	
4		624.4800	30.29	3.89	34.18	47.00	-12.82	peak	
5		720.1800	26.58	5.34	31.92	47.00	-15.08	peak	
6		959.9400	24.72	9.78	34.50	47.00	-12.50	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)		

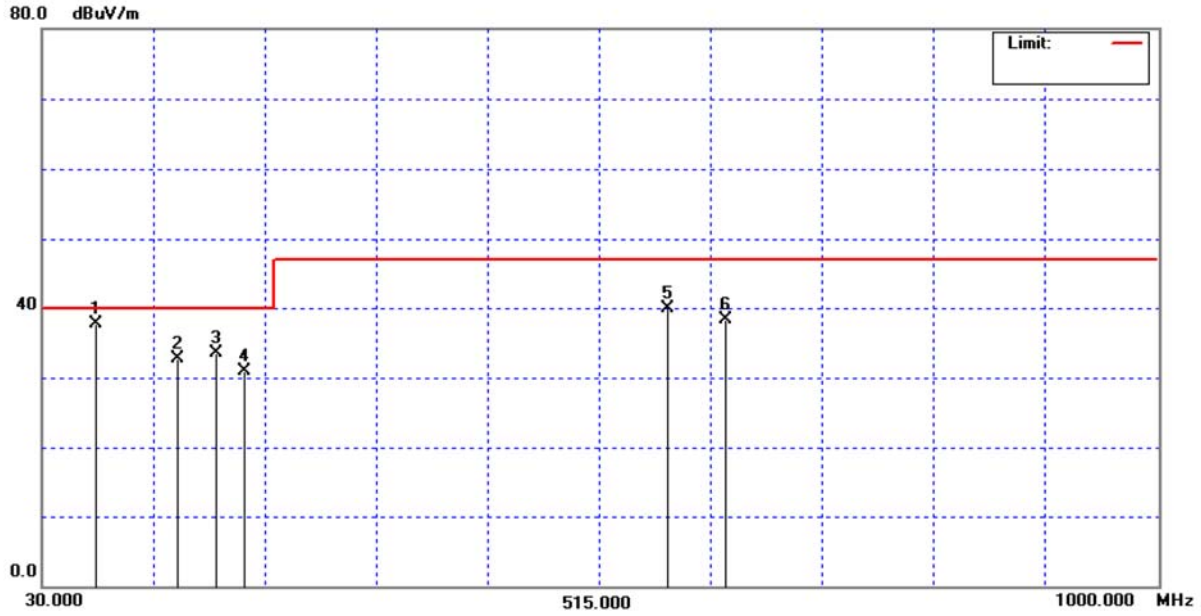
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.5800	42.04	-7.30	34.74	40.00	-5.26	peak	
2		38.4680	41.89	-6.07	35.82	40.00	-4.18	peak	
3	*	43.3400	41.85	-5.37	36.48	40.00	-3.52	peak	
4		117.5780	40.07	-4.49	35.58	40.00	-4.42	peak	
5		124.9940	37.31	-4.07	33.24	40.00	-6.76	peak	
6		143.9000	39.43	-3.60	35.83	40.00	-4.17	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	25°C	Relative Humidity	76%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)		

Polarization: Horizontal

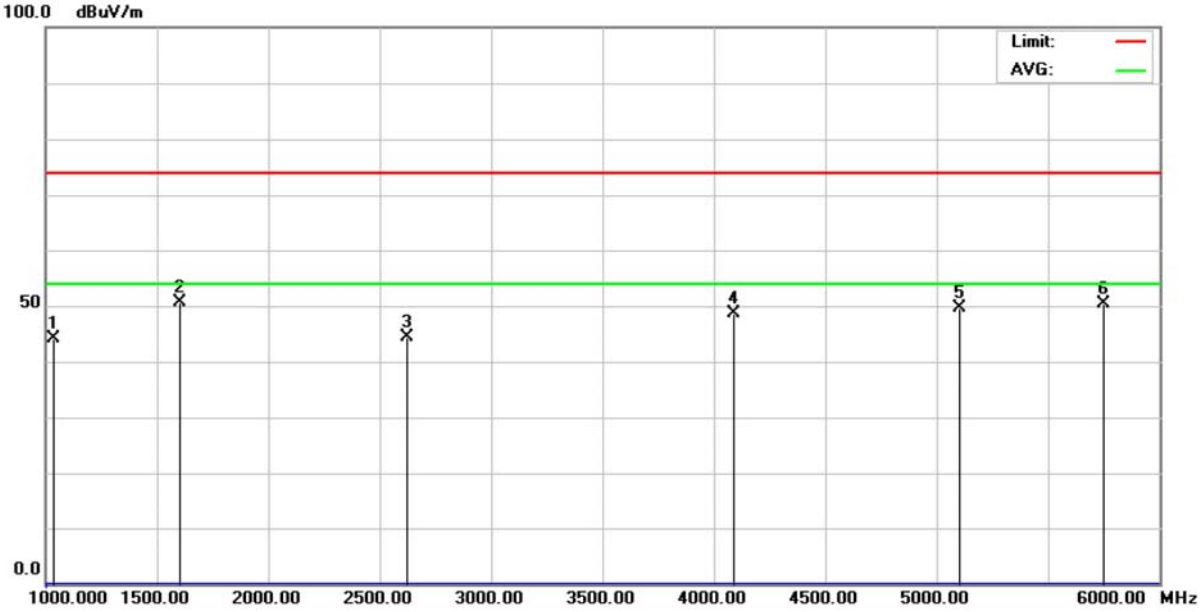


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	75.1240	44.06	-6.44	37.62	40.00	-2.38	peak	
2		148.0820	36.38	-3.68	32.70	40.00	-7.30	peak	
3		179.5700	38.83	-5.39	33.44	40.00	-6.56	peak	
4		204.9080	38.53	-7.54	30.99	40.00	-9.01	peak	
5		574.6600	37.26	2.71	39.97	47.00	-7.03	peak	
6		625.0040	34.41	3.89	38.30	47.00	-8.70	peak	

4.2.8 TEST RESULTS-ABOVE 1 GHZ

EUT	IPC	Model Name	AMOS-820
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

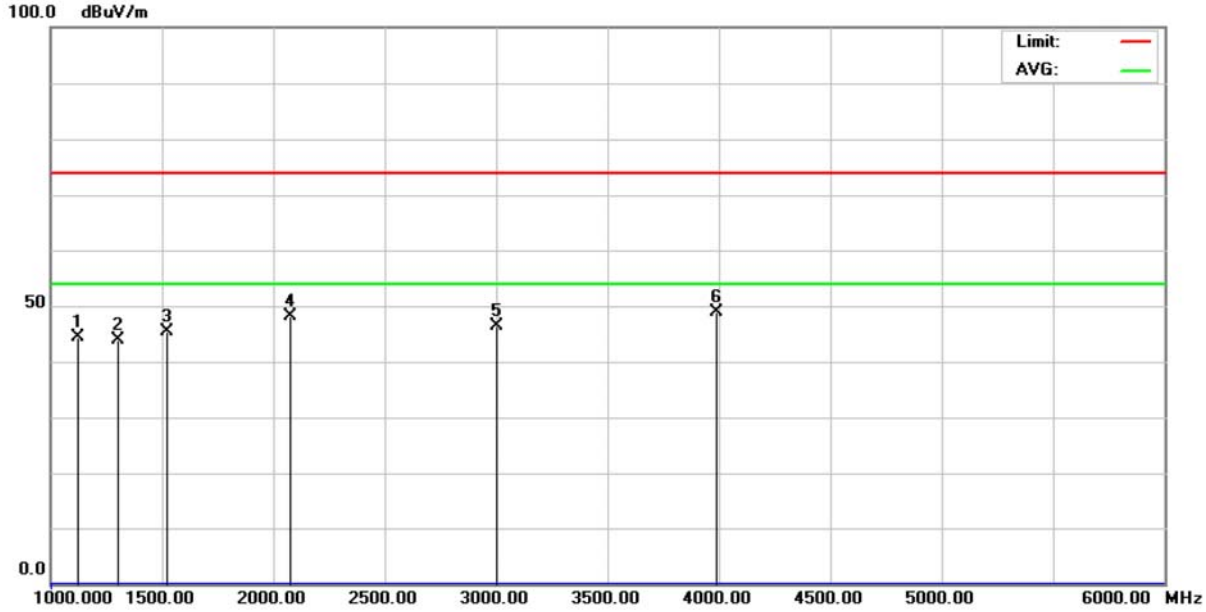
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1037.500	49.82	-5.67	44.15	74.00	-29.85	peak	
2	*	1600.000	53.65	-3.05	50.60	74.00	-23.40	peak	
3		2625.000	43.97	0.34	44.31	74.00	-29.69	peak	
4		4087.500	43.57	4.99	48.56	74.00	-25.44	peak	
5		5100.000	43.35	6.19	49.54	74.00	-24.46	peak	
6		5750.000	42.74	7.61	50.35	74.00	-23.65	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)		

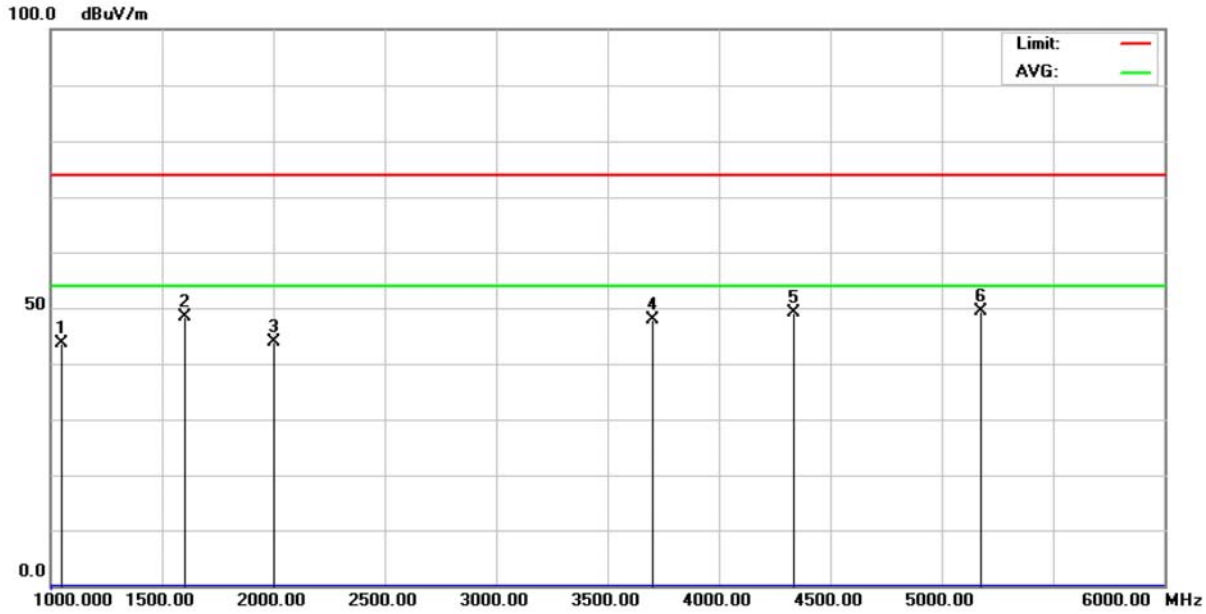
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1125.000	49.52	-5.24	44.28	74.00	-29.72	peak	
2		1300.000	48.29	-4.37	43.92	74.00	-30.08	peak	
3		1525.000	48.63	-3.29	45.34	74.00	-28.66	peak	
4		2075.000	49.61	-1.49	48.12	74.00	-25.88	peak	
5		3000.000	45.67	0.62	46.29	74.00	-27.71	peak	
6	*	3987.500	43.99	4.86	48.85	74.00	-25.15	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

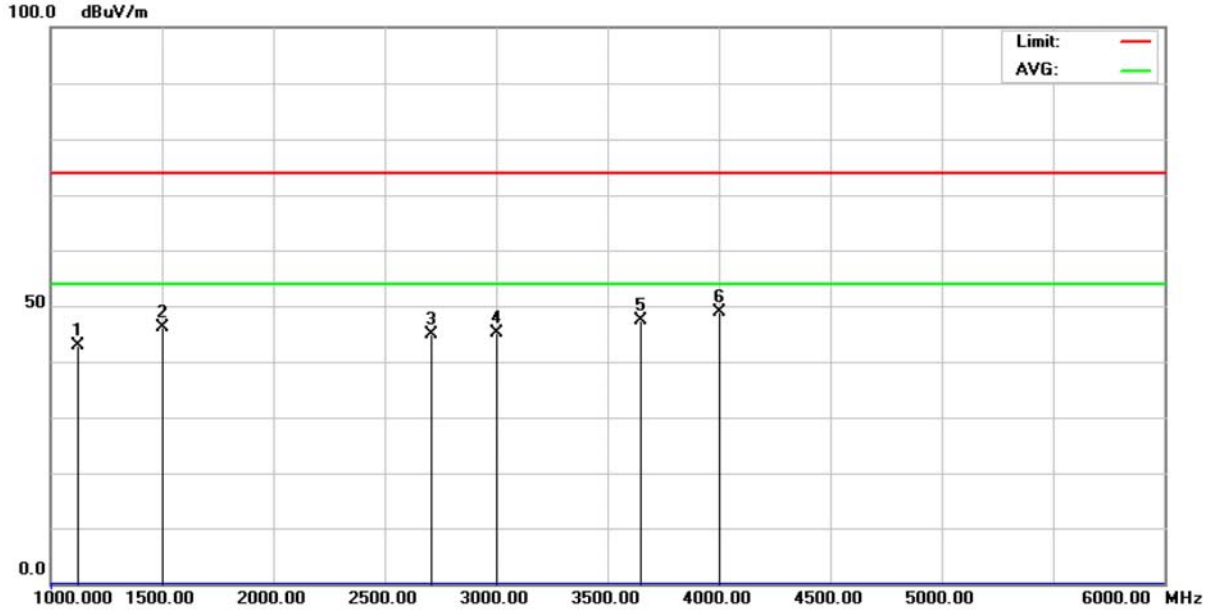
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1050.000	49.18	-5.61	43.57	74.00	-30.43	peak	
2		1600.000	51.32	-3.05	48.27	74.00	-25.73	peak	
3		2000.000	45.76	-1.79	43.97	74.00	-30.03	peak	
4		3700.000	44.59	3.31	47.90	74.00	-26.10	peak	
5		4337.500	43.92	5.18	49.10	74.00	-24.90	peak	
6	*	5175.000	43.07	6.37	49.44	74.00	-24.56	peak	

EUT	IPC	Model Name	AMOS-820
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)		

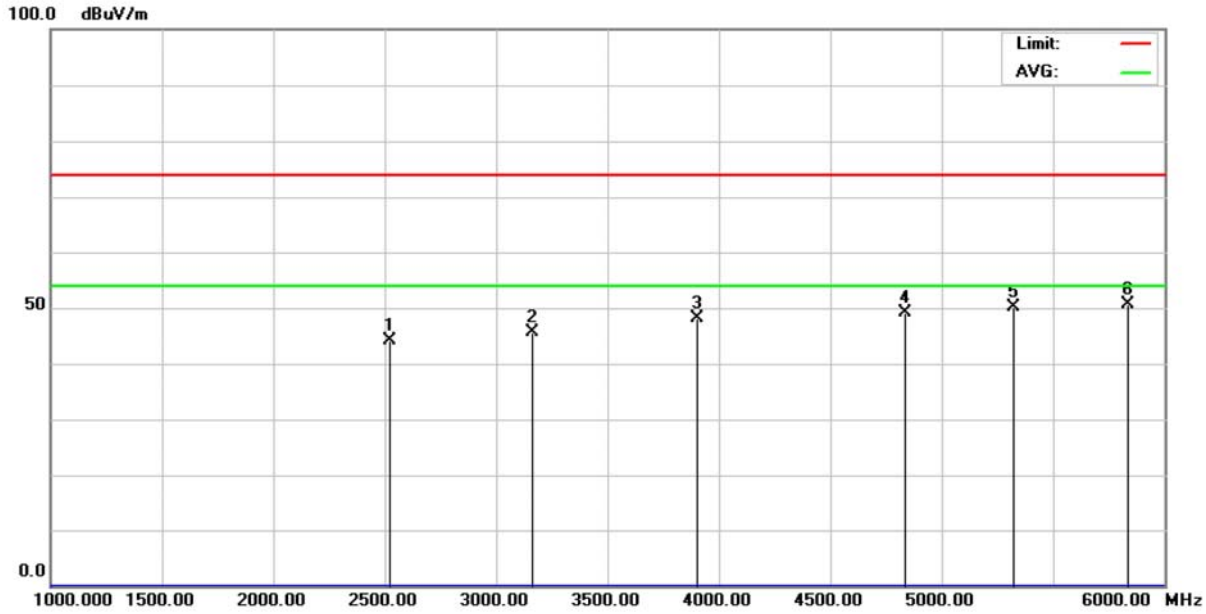
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1125.000	48.13	-5.24	42.89	74.00	-31.11	peak	
2		1500.000	49.40	-3.37	46.03	74.00	-27.97	peak	
3		2712.500	44.54	0.40	44.94	74.00	-29.06	peak	
4		3000.000	44.42	0.62	45.04	74.00	-28.96	peak	
5		3650.000	44.26	3.04	47.30	74.00	-26.70	peak	
6	*	4000.000	43.93	4.93	48.86	74.00	-25.14	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

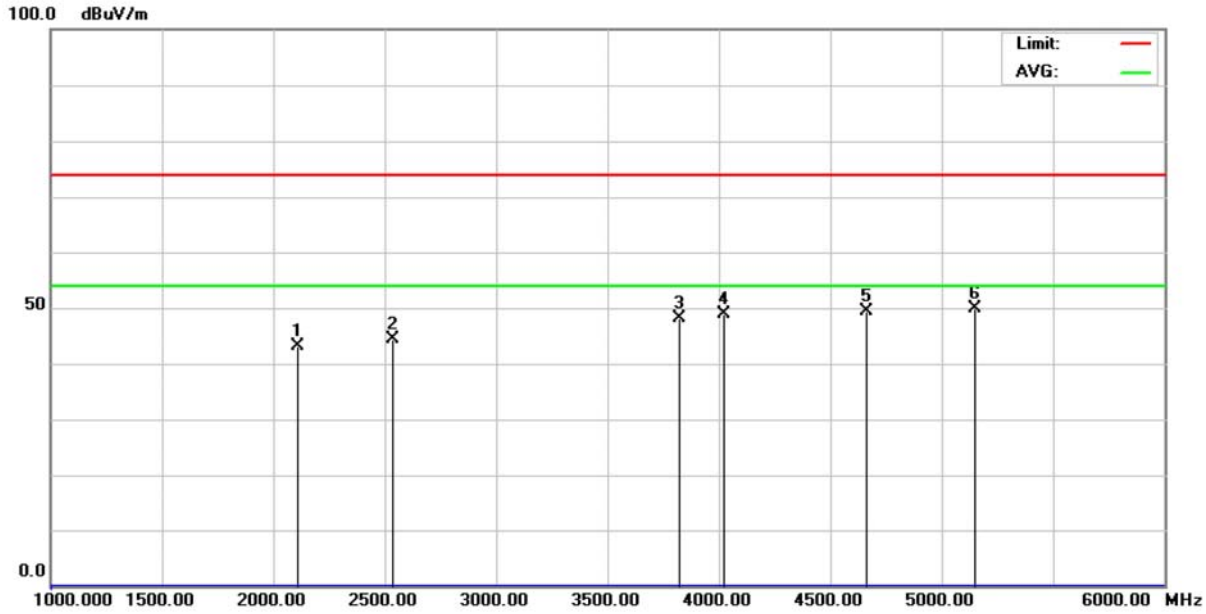
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2525.000	43.94	0.26	44.20	74.00	-29.80	peak	
2		3162.500	44.54	1.14	45.68	74.00	-28.32	peak	
3		3900.000	43.71	4.39	48.10	74.00	-25.90	peak	
4		4837.500	43.51	5.73	49.24	74.00	-24.76	peak	
5		5325.000	43.33	6.75	50.08	74.00	-23.92	peak	
6	*	5837.500	42.74	7.77	50.51	74.00	-23.49	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)		

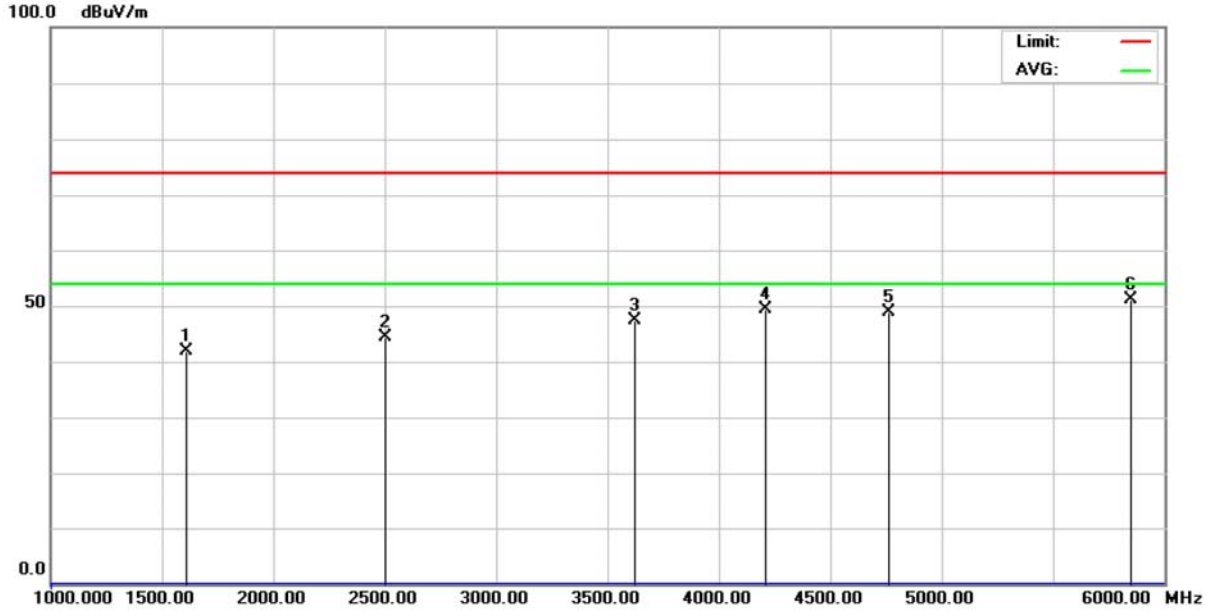
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2112.500	44.50	-1.33	43.17	74.00	-30.83	peak	
2		2537.500	44.17	0.27	44.44	74.00	-29.56	peak	
3		3825.000	44.09	3.99	48.08	74.00	-25.92	peak	
4		4025.000	43.91	4.95	48.86	74.00	-25.14	peak	
5		4662.500	43.85	5.51	49.36	74.00	-24.64	peak	
6	*	5150.000	43.48	6.31	49.79	74.00	-24.21	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM (CPT-1000) (PoE)		

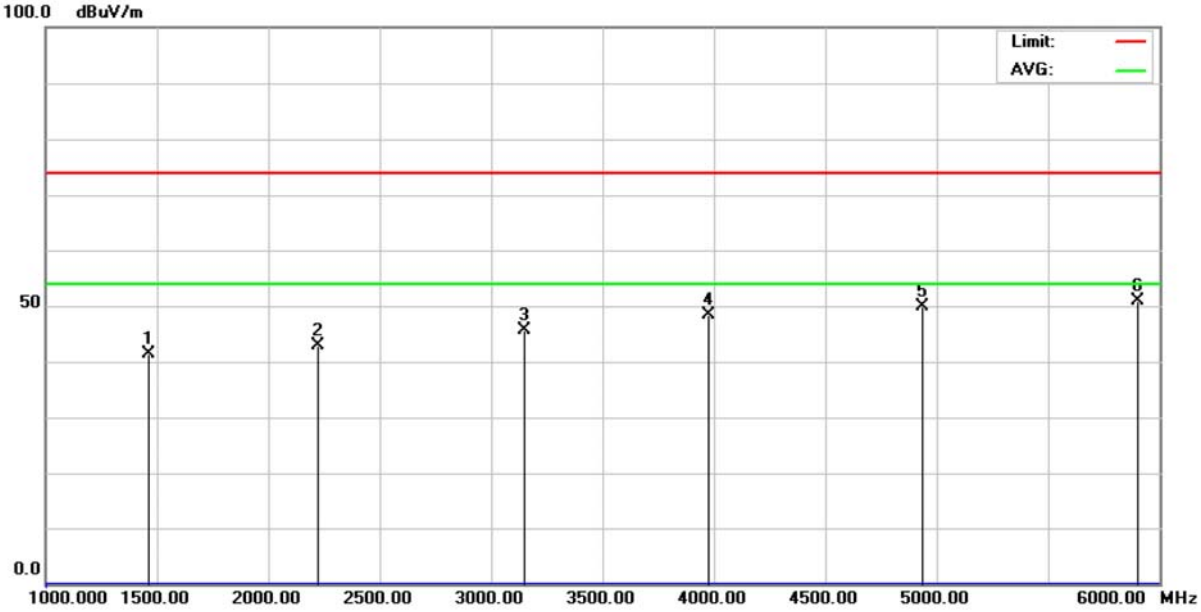
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1612.500	44.81	-3.01	41.80	74.00	-32.20	peak	
2		2500.000	44.25	0.24	44.49	74.00	-29.51	peak	
3		3625.000	44.59	2.90	47.49	74.00	-26.51	peak	
4		4212.500	44.18	5.09	49.27	74.00	-24.73	peak	
5		4762.500	43.27	5.64	48.91	74.00	-25.09	peak	
6	*	5850.000	43.39	7.79	51.18	74.00	-22.82	peak	

EUT	IPC	Model Name	CPT-1000
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM (CPT-1000) (PoE)		

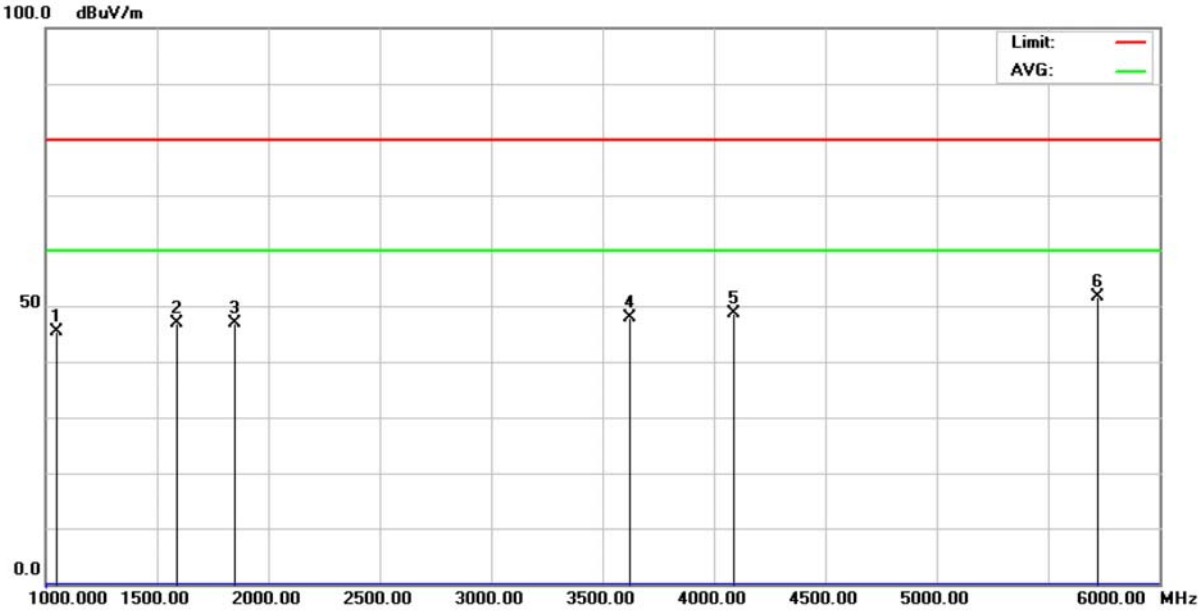
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1462.500	44.97	-3.56	41.41	74.00	-32.59	peak	
2		2225.000	43.65	-0.88	42.77	74.00	-31.23	peak	
3		3150.000	44.44	1.10	45.54	74.00	-28.46	peak	
4		3975.000	43.54	4.80	48.34	74.00	-25.66	peak	
5		4937.500	44.00	5.86	49.86	74.00	-24.14	peak	
6	*	5900.000	43.00	7.88	50.88	74.00	-23.12	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

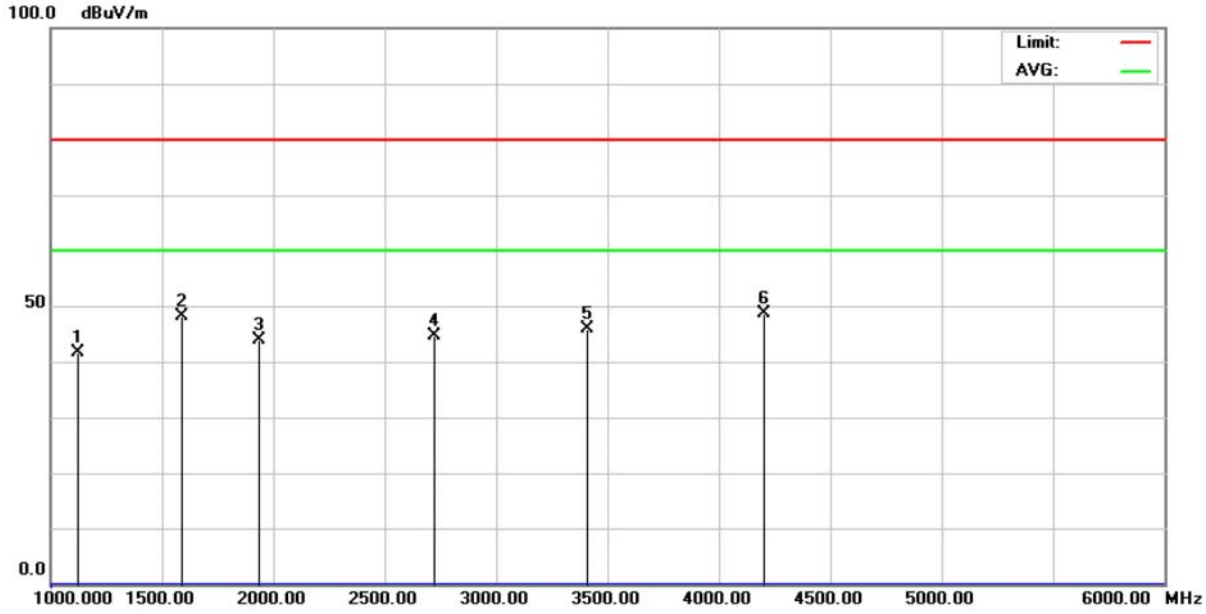
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1050.000	50.90	-5.61	45.29	80.00	-34.71	peak	
2		1587.500	50.05	-3.09	46.96	80.00	-33.04	peak	
3		1850.000	49.05	-2.26	46.79	80.00	-33.21	peak	
4		3625.000	44.94	2.90	47.84	80.00	-32.16	peak	
5		4087.500	43.66	4.99	48.65	80.00	-31.35	peak	
6	*	5725.000	44.10	7.57	51.67	80.00	-28.33	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)		

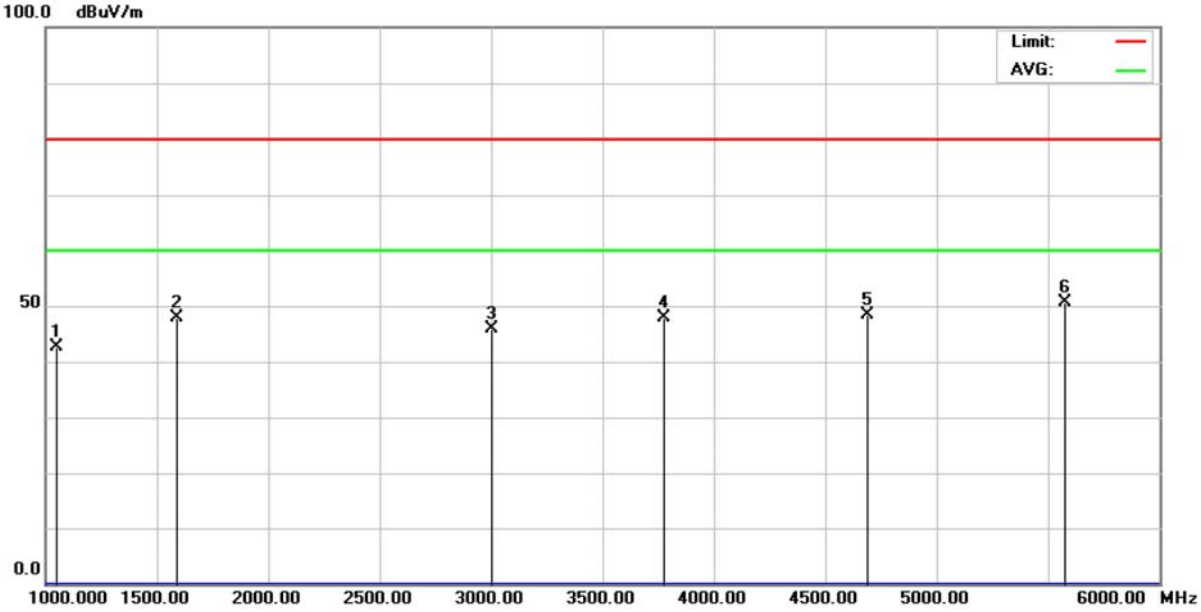
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1125.000	46.80	-5.24	41.56	80.00	-38.44	peak	
2		1587.500	51.28	-3.09	48.19	80.00	-31.81	peak	
3		1937.500	45.98	-1.99	43.99	80.00	-36.01	peak	
4		2725.000	44.24	0.41	44.65	80.00	-35.35	peak	
5		3412.500	43.96	1.95	45.91	80.00	-34.09	peak	
6	*	4200.000	43.45	5.08	48.53	80.00	-31.47	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

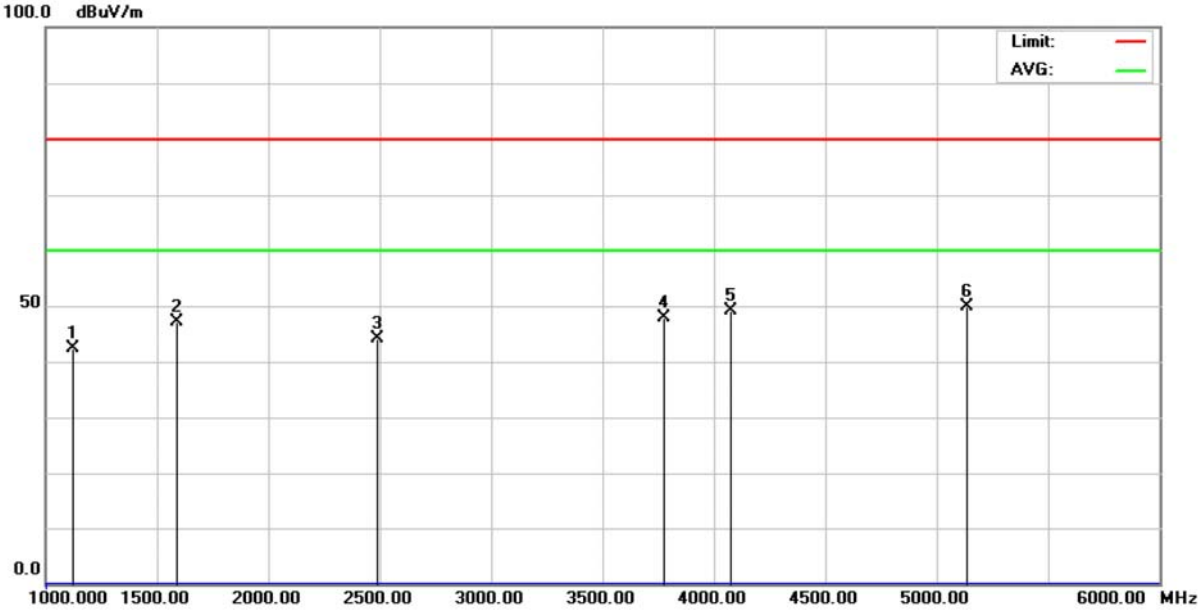
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1050.000	48.23	-5.61	42.62	80.00	-37.38	peak	
2		1587.500	50.94	-3.09	47.85	80.00	-32.15	peak	
3		3000.000	45.21	0.62	45.83	80.00	-34.17	peak	
4		3775.000	44.28	3.72	48.00	80.00	-32.00	peak	
5		4687.500	42.94	5.54	48.48	80.00	-31.52	peak	
6	*	5575.000	43.22	7.31	50.53	80.00	-29.47	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)		

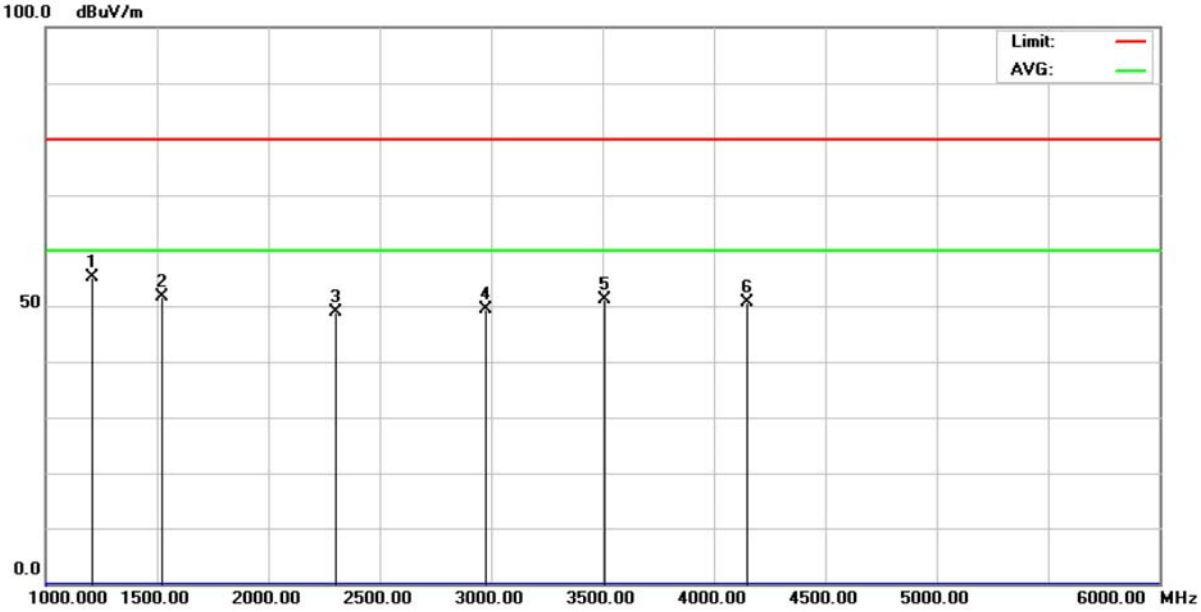
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1125.000	47.53	-5.24	42.29	80.00	-37.71	peak	
2		1587.500	50.17	-3.09	47.08	80.00	-32.92	peak	
3		2487.500	44.06	0.19	44.25	80.00	-35.75	peak	
4		3775.000	44.05	3.72	47.77	80.00	-32.23	peak	
5		4075.000	44.13	4.99	49.12	80.00	-30.88	peak	
6	*	5137.500	43.55	6.28	49.83	80.00	-30.17	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)		

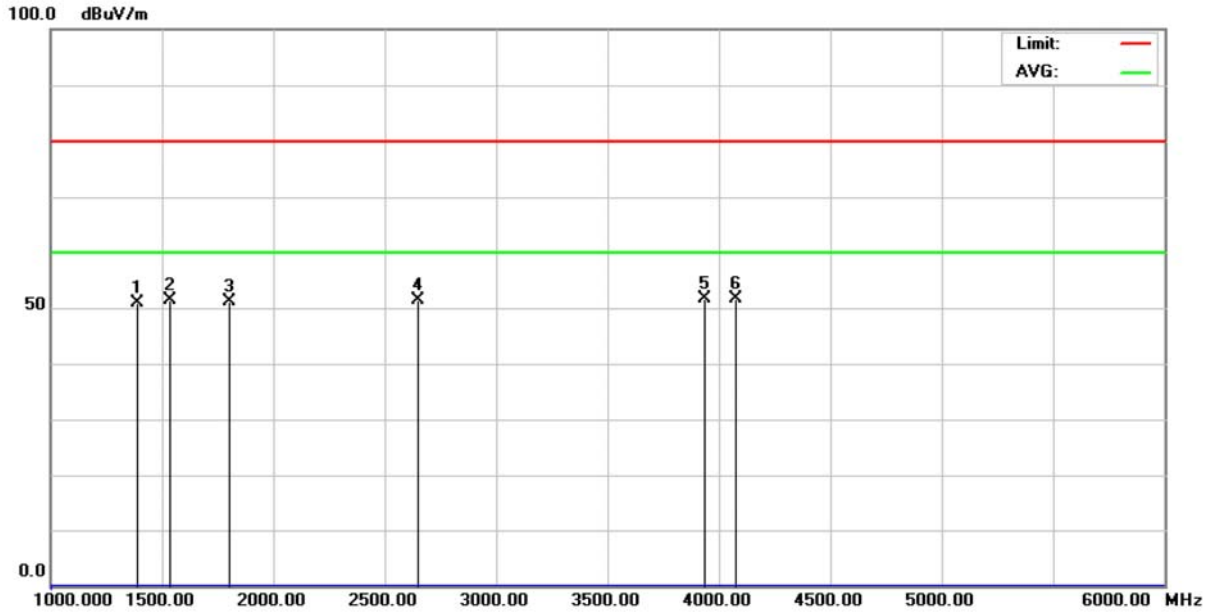
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1212.500	60.04	-4.80	55.24	80.00	-24.76	peak	
2		1525.000	55.02	-3.29	51.73	80.00	-28.27	peak	
3		2300.000	49.46	-0.57	48.89	80.00	-31.11	peak	
4		2975.000	48.67	0.60	49.27	80.00	-30.73	peak	
5		3512.500	48.83	2.30	51.13	80.00	-28.87	peak	
6		4150.000	45.55	5.04	50.59	80.00	-29.41	peak	

EUT	IPC	Model Name	AMOS-820-P
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 48V		
Test Mode	FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)		

Polarization: Horizontal

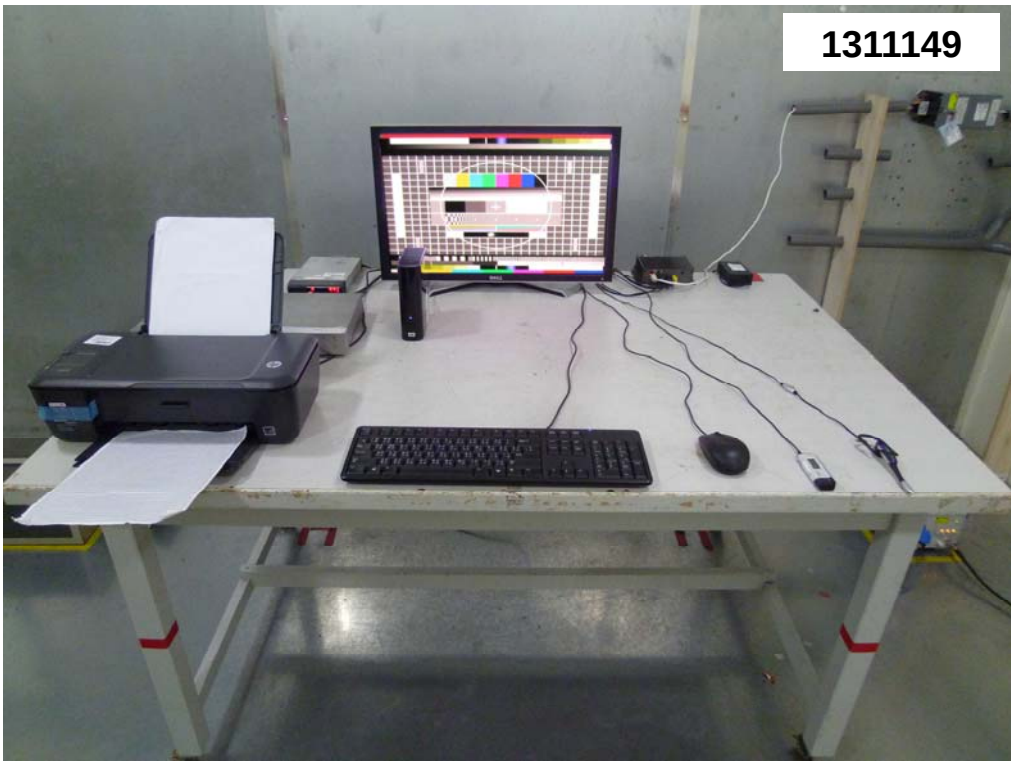


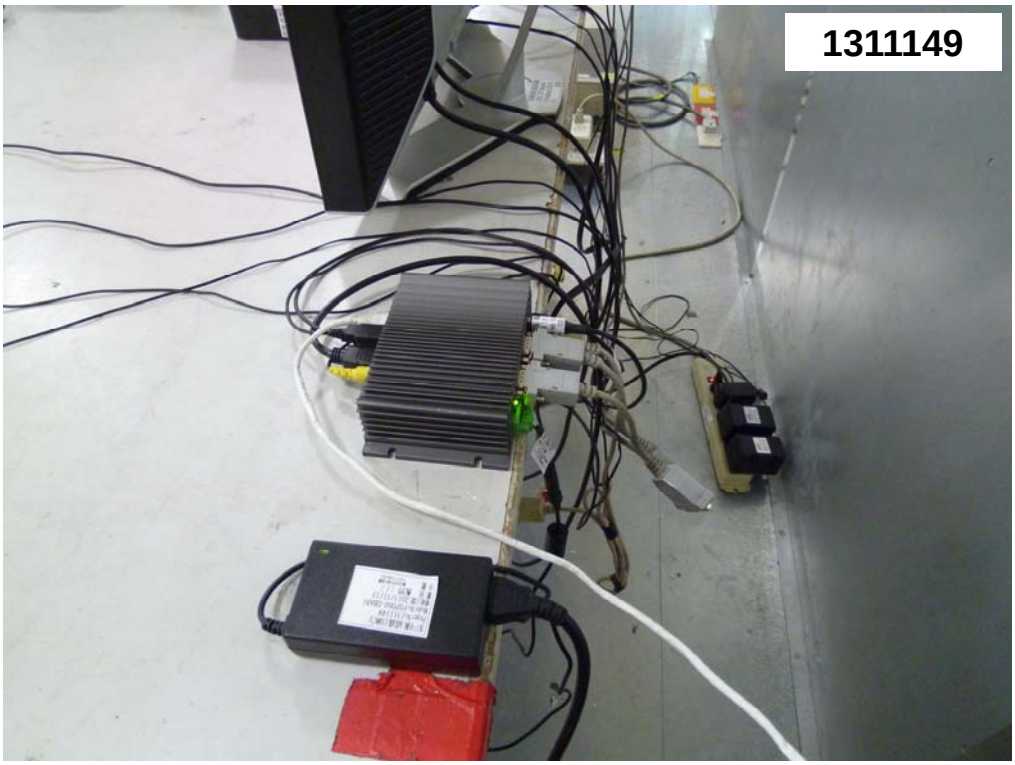
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1387.500	54.90	-3.93	50.97	80.00	-29.03	peak	
2		1537.500	54.58	-3.25	51.33	80.00	-28.67	peak	
3		1800.000	53.53	-2.42	51.11	80.00	-28.89	peak	
4		2650.000	51.14	0.35	51.49	80.00	-28.51	peak	
5		3937.500	47.06	4.59	51.65	80.00	-28.35	peak	
6	*	4075.000	46.68	4.99	51.67	80.00	-28.33	peak	

5. EUT TEST PHOTO

Conducted emission test photos

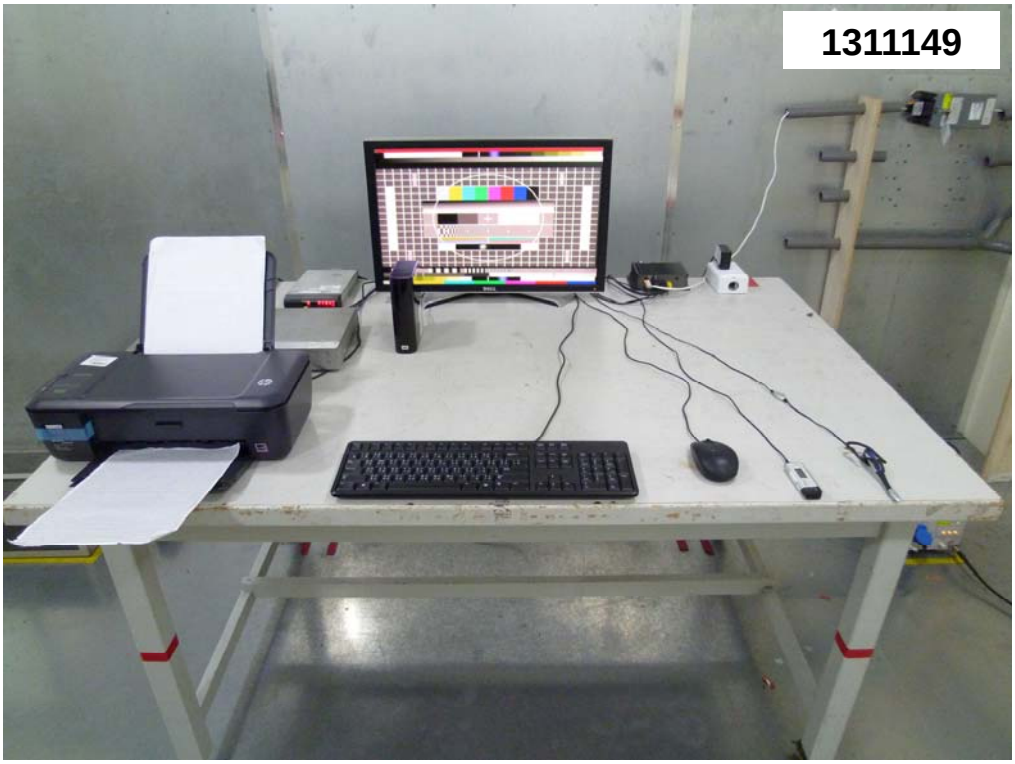
FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)

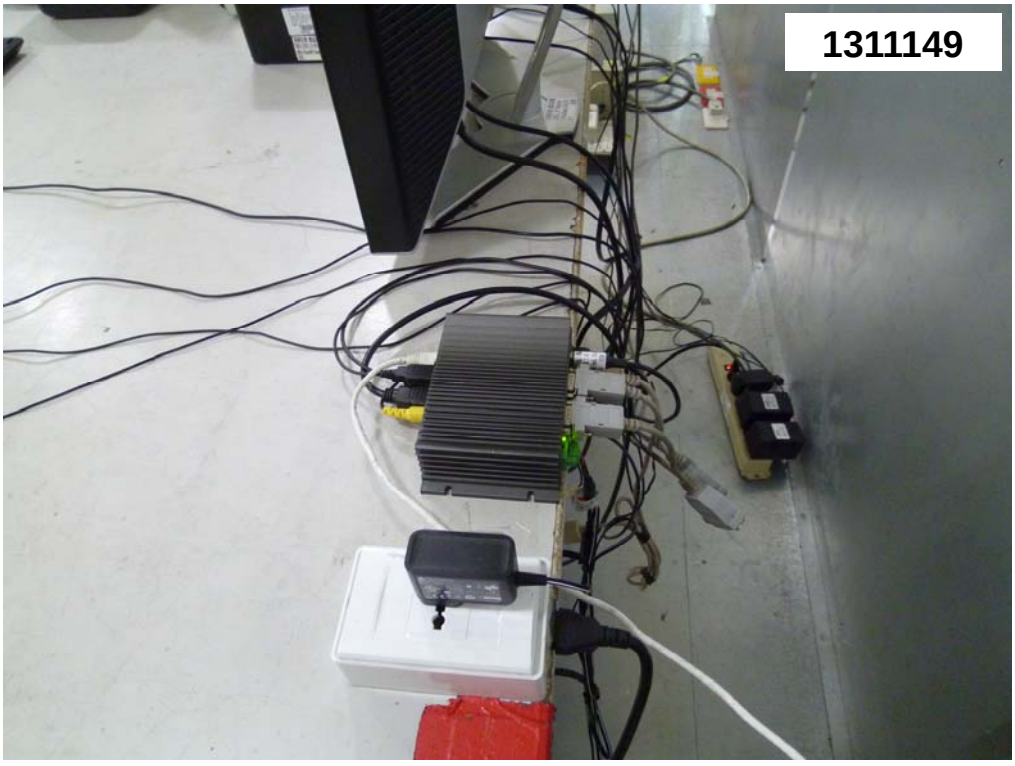




Conducted emission test photos

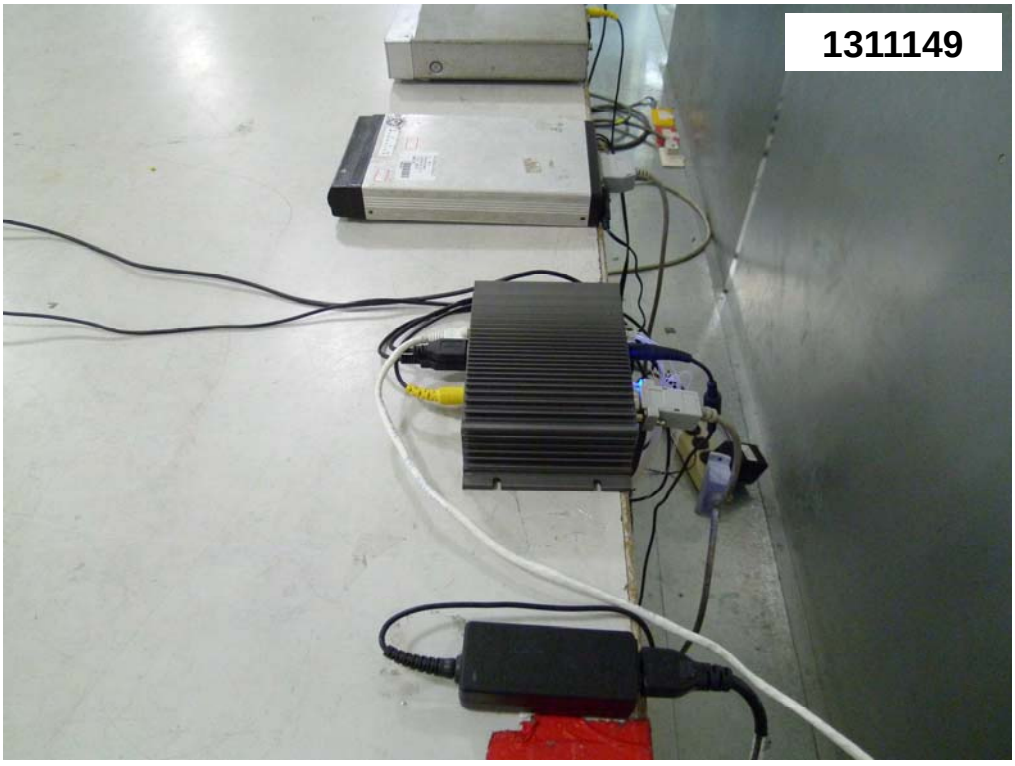
FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)





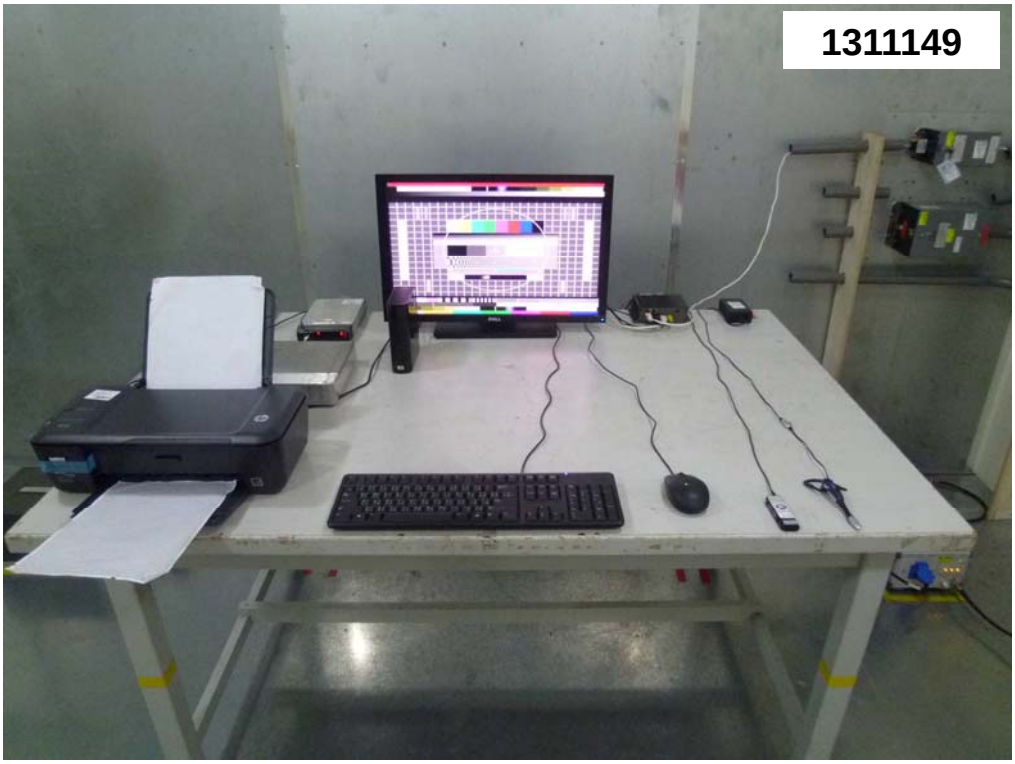
Conducted emission test photos

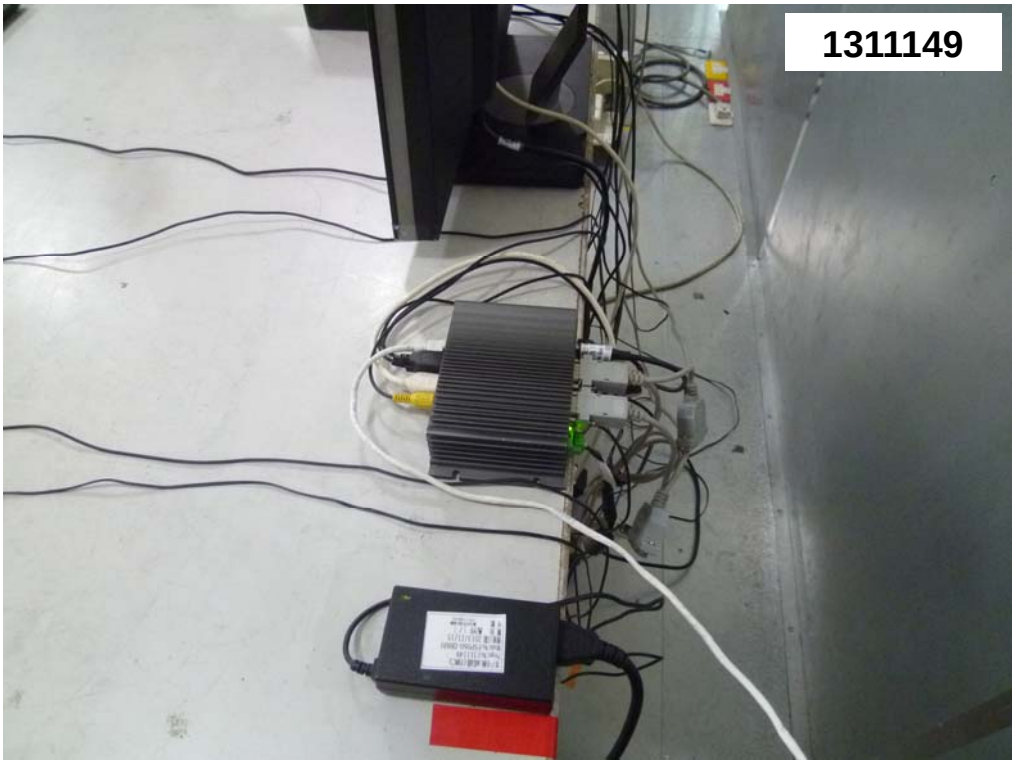
FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)



Conducted emission test photos

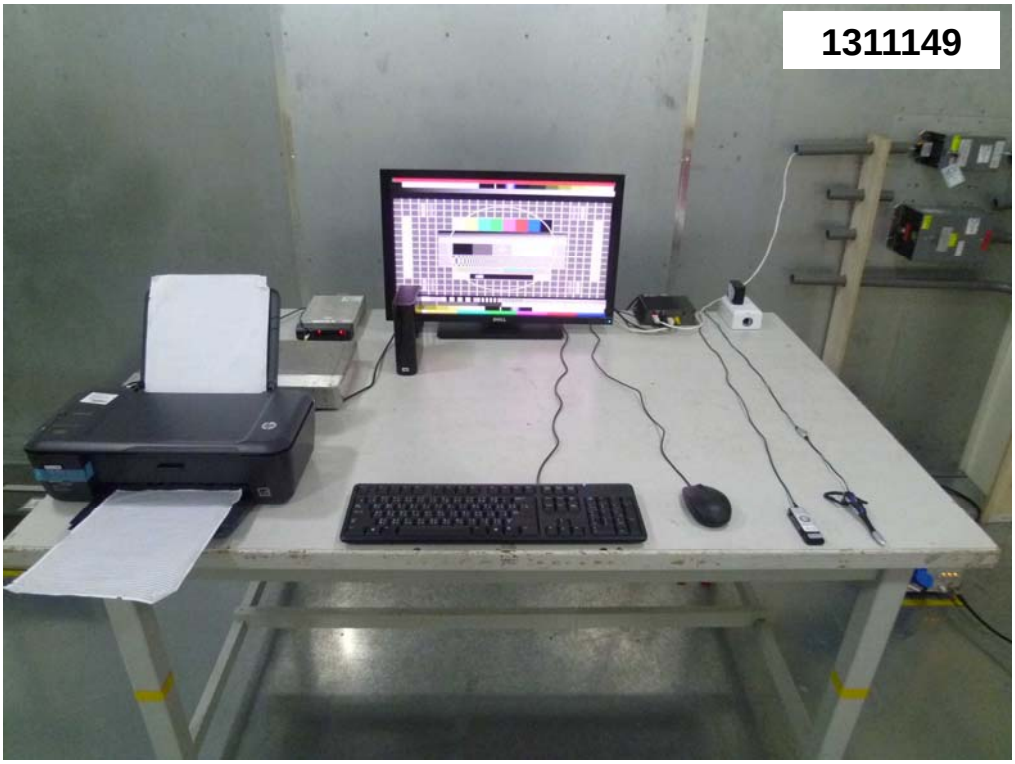
FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)

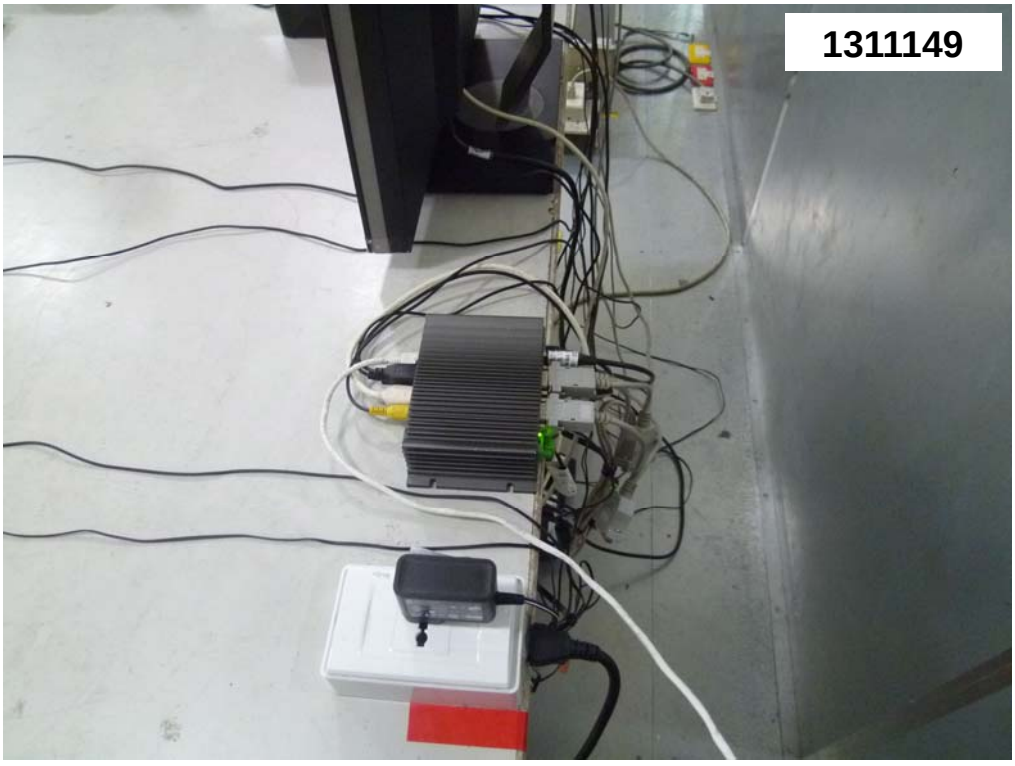




Conducted emission test photos

FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)

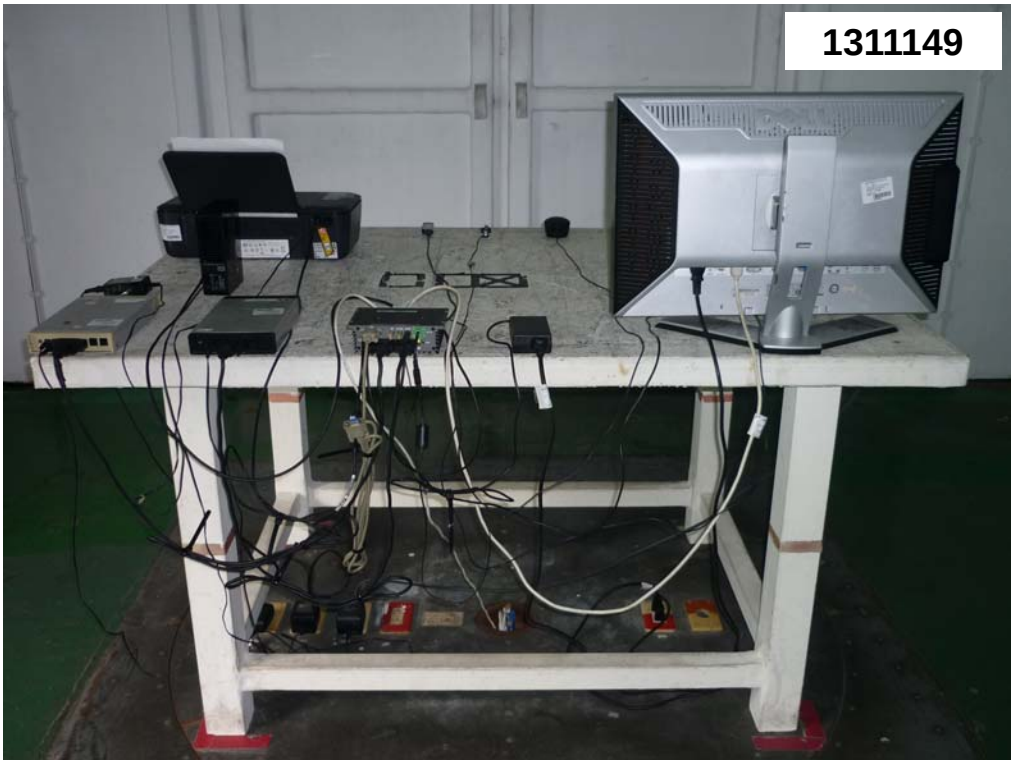




Radiated emission test photos

Below 1 GHz

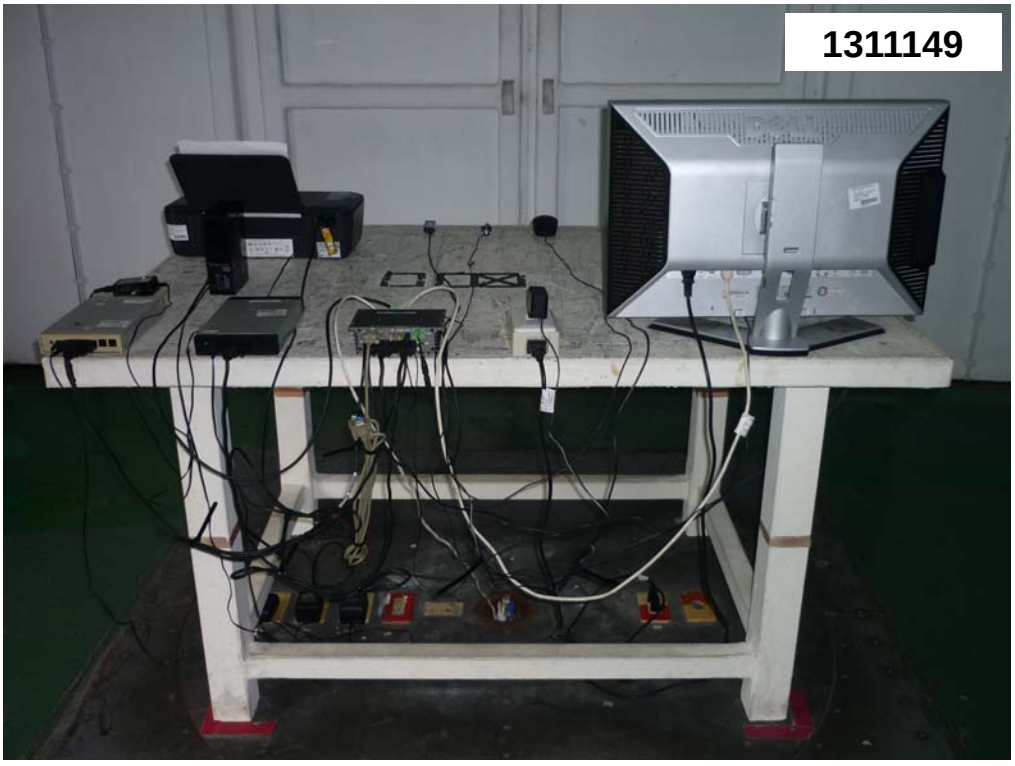
FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)



Radiated emission test photos

Below 1 GHz

FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)



Radiated emission test photos

Below 1 GHz
FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)

Radiated emission test photos

Below 1 GHz
FULL SYSTEM (CPT-1000) (PoE)

Radiated emission test photos

Below 1 GHz

FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)

Radiated emission test photos

Below 1 GHz

FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)

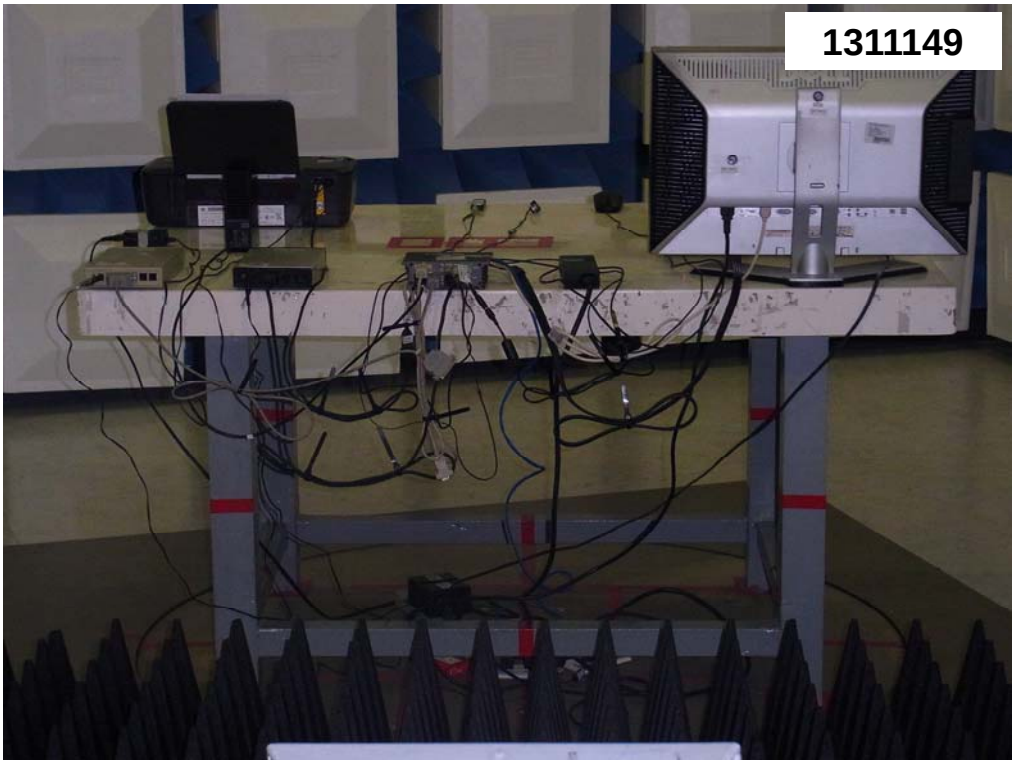
Radiated emission test photos

Below 1 GHz
FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)

Radiated emission test photos

Above 1 GHz

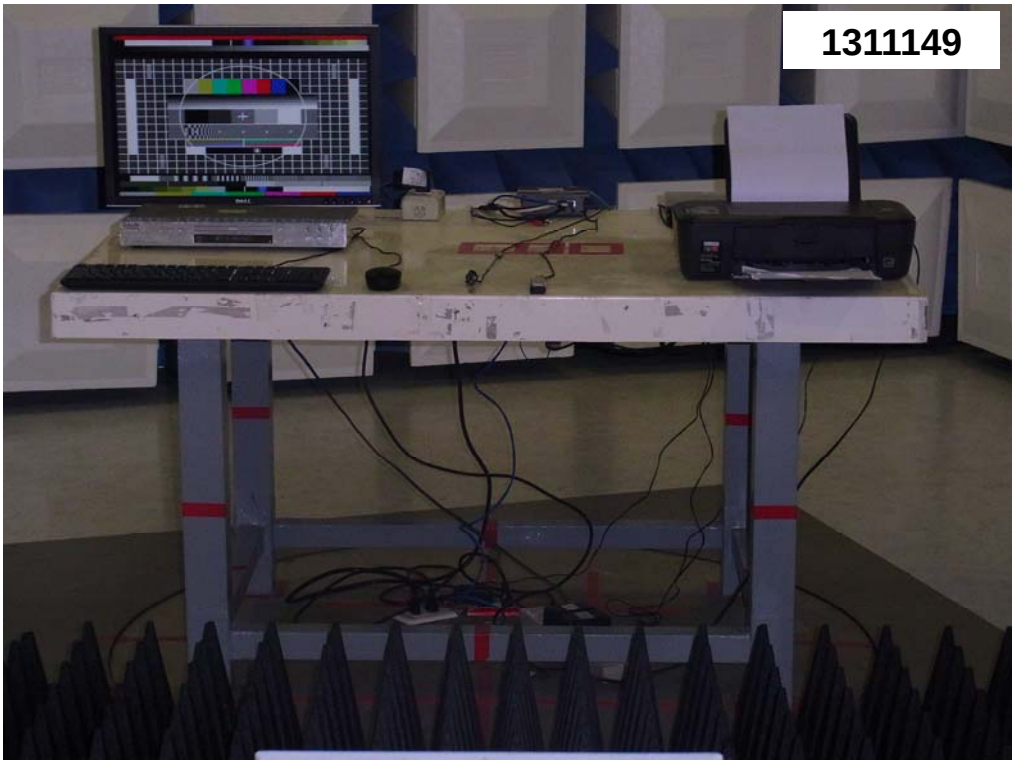
FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : FSP060-DBAB1)

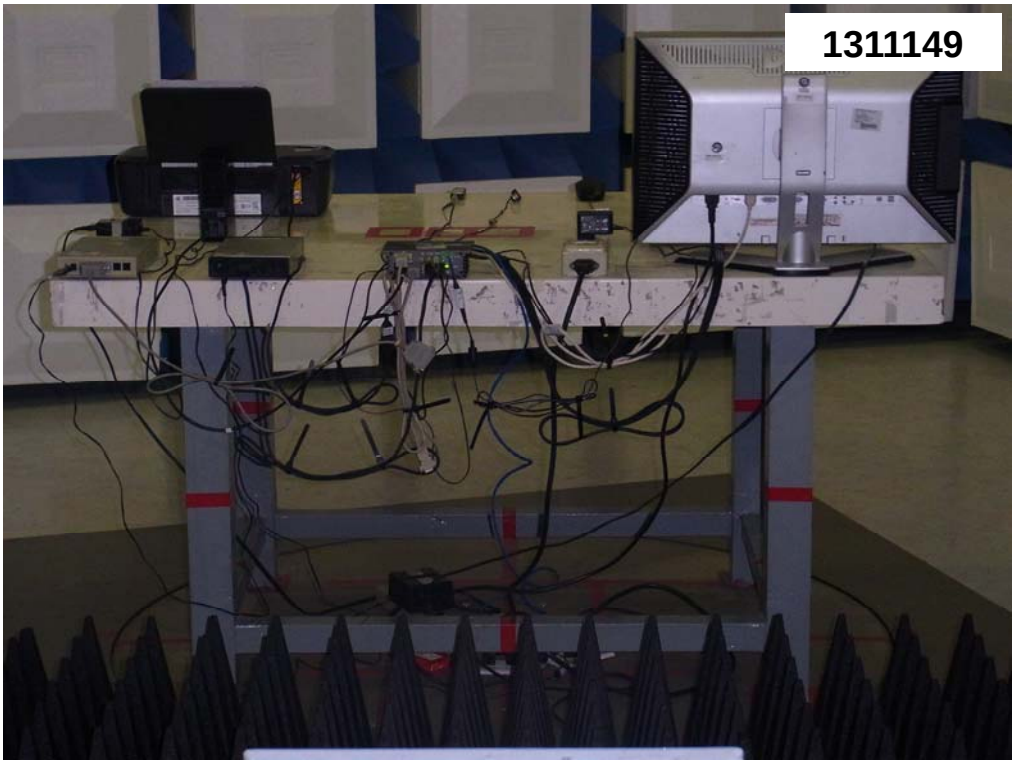


Radiated emission test photos

Above 1 GHz

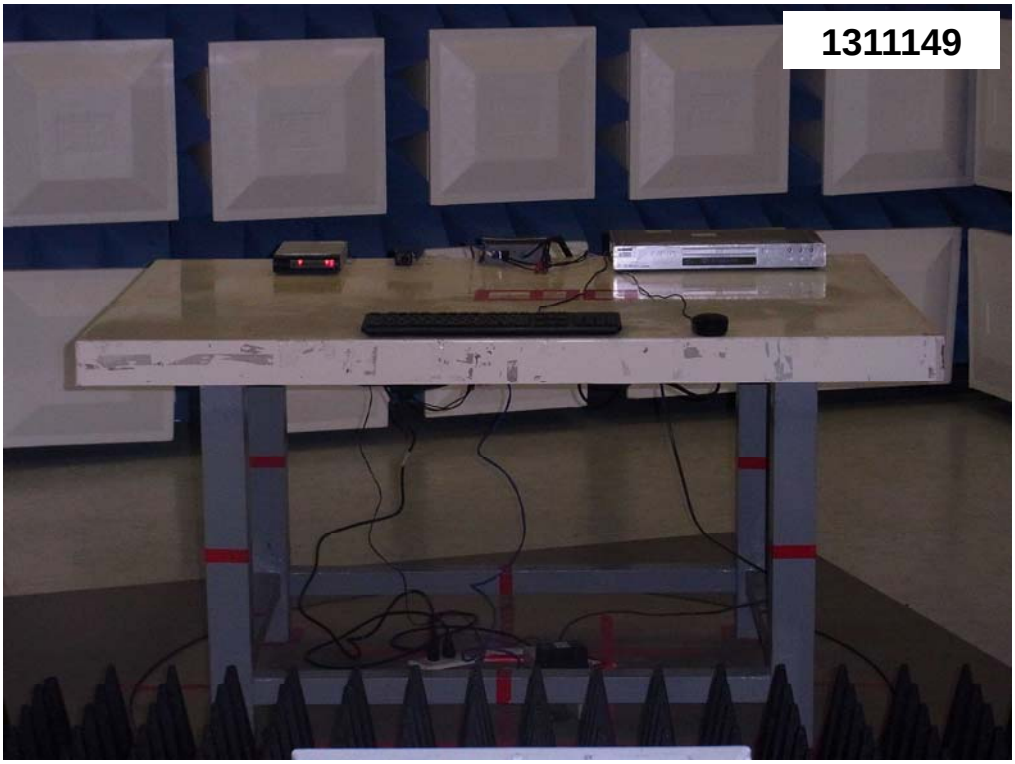
FULL SYSTEM HDMI 1920*1080/60Hz(AMOS-820) (Adapter : ADP-18TB A)

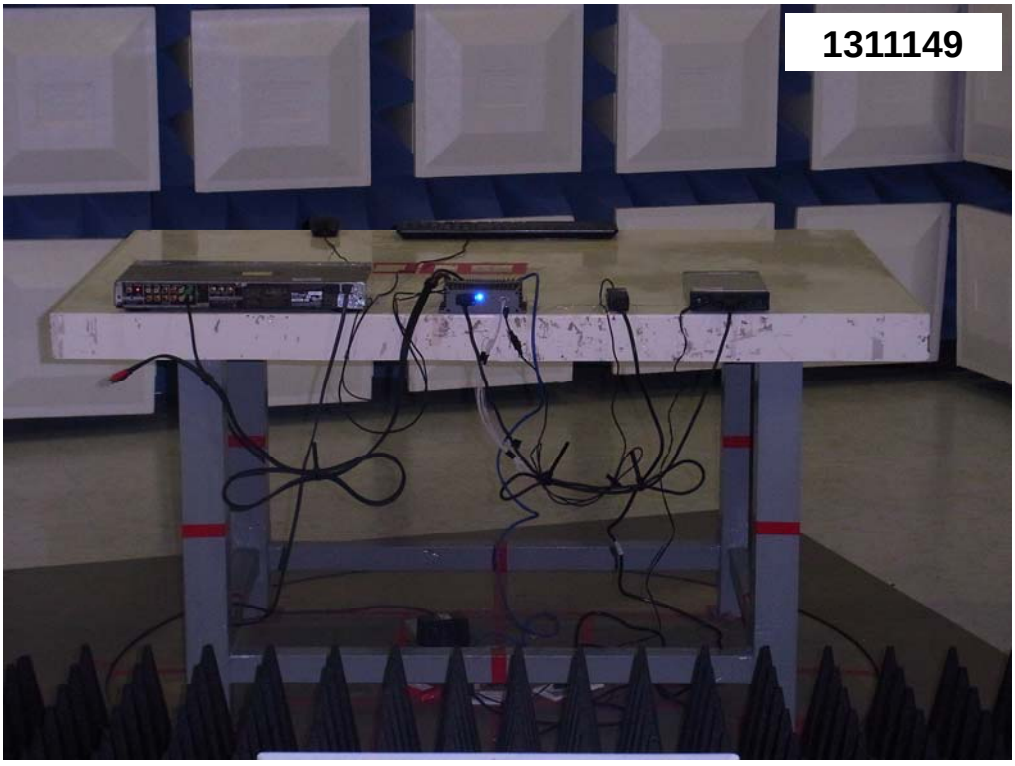




Radiated emission test photos

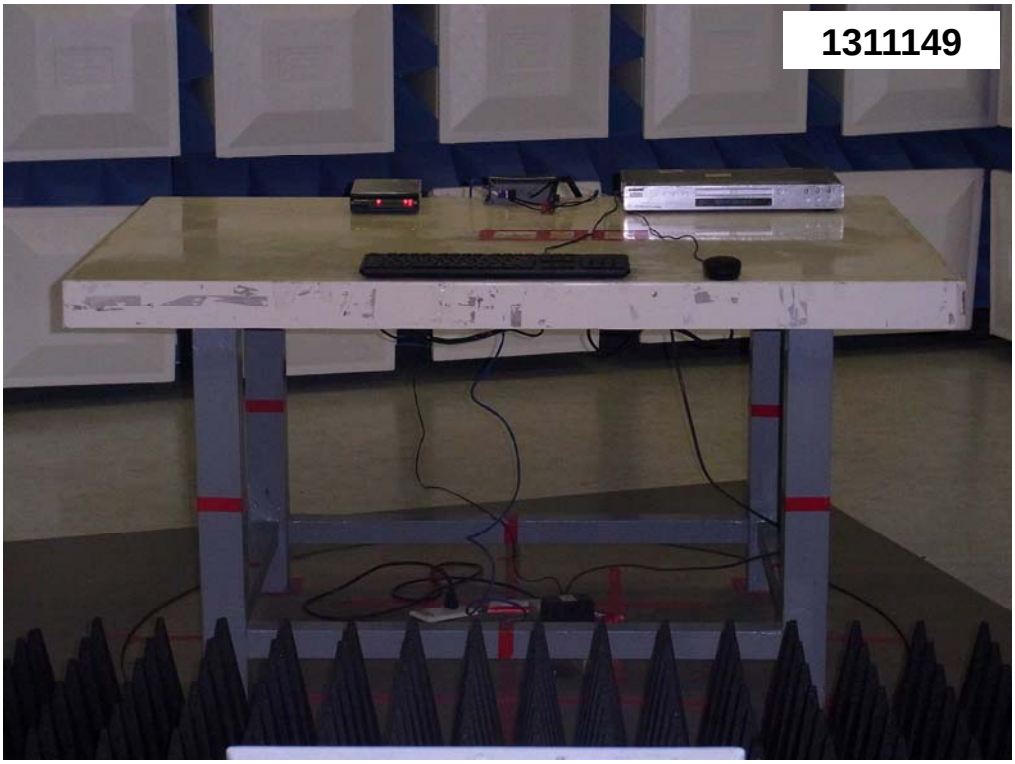
Above 1 GHz
FULL SYSTEM (CPT-1000) (Adapter:ADP-36JH B)

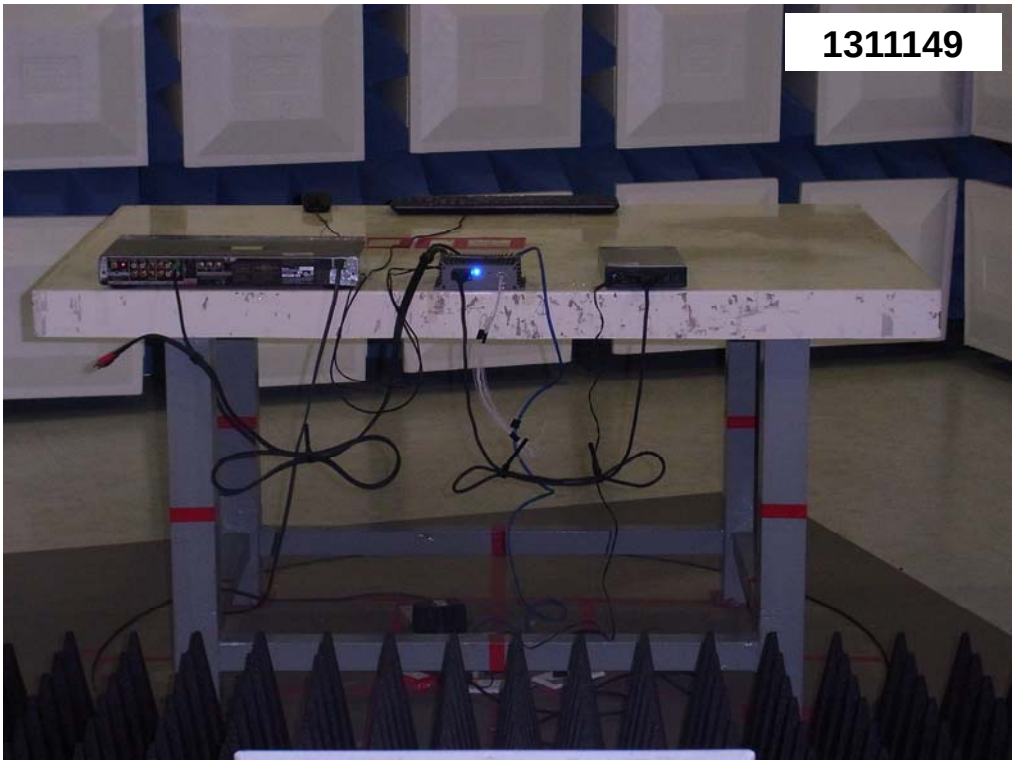




Radiated emission test photos

Above 1 GHz
FULL SYSTEM (CPT-1000) (PoE)

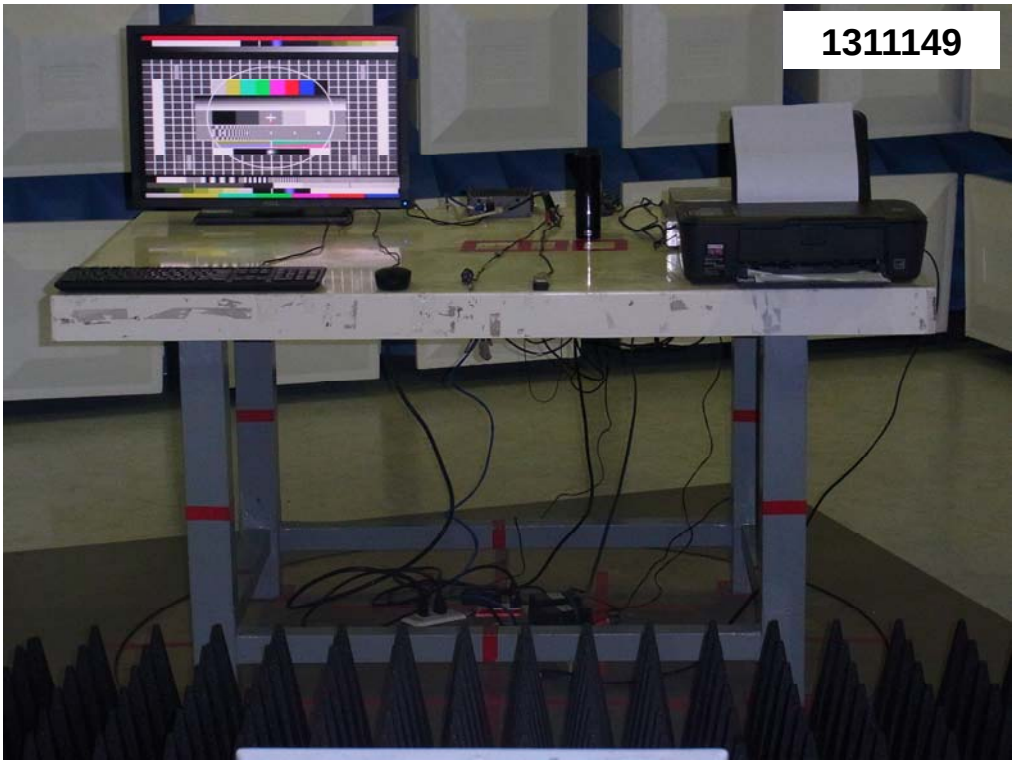


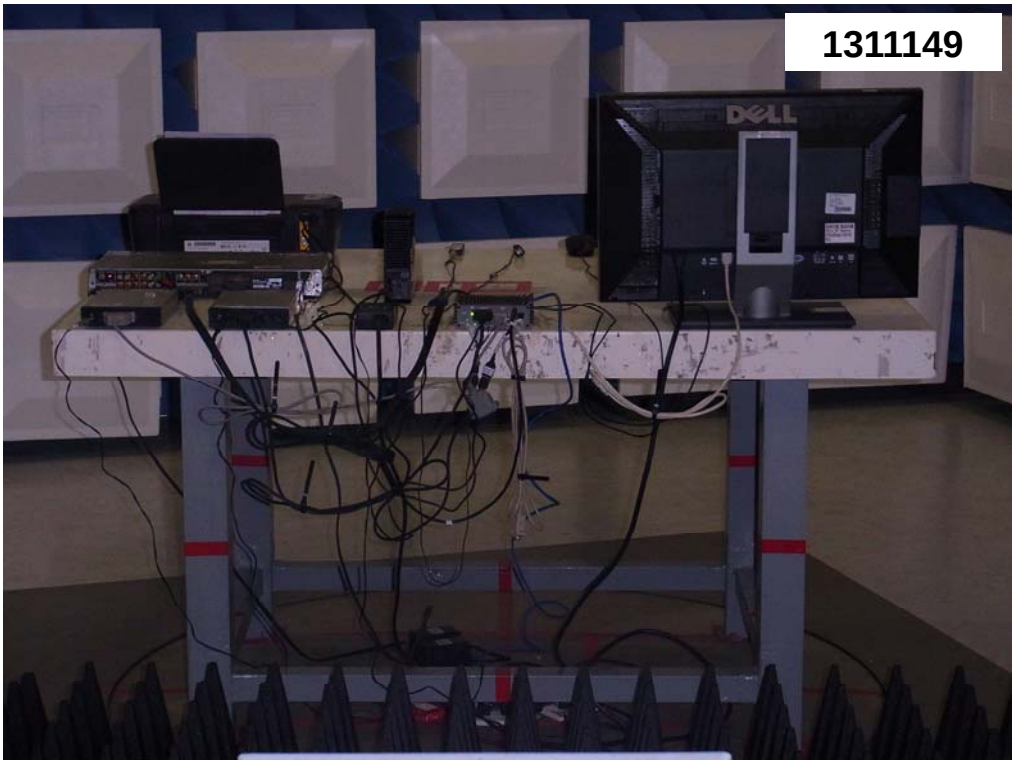


Radiated emission test photos

Above 1 GHz

FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:FSP060-DBAB1)

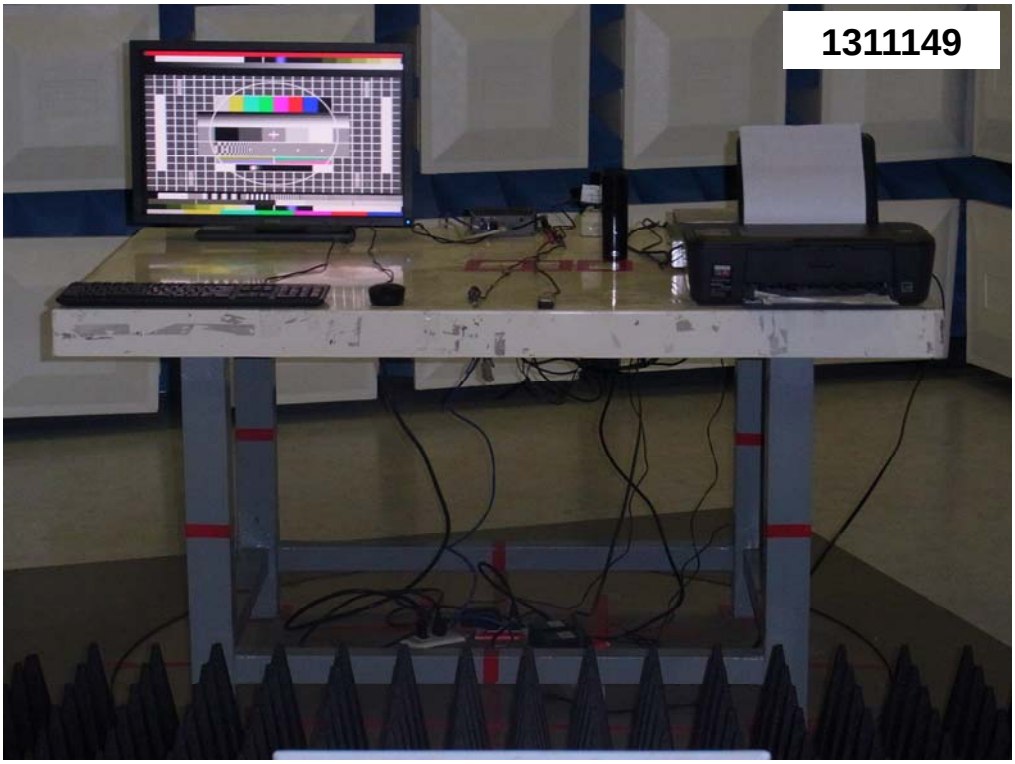


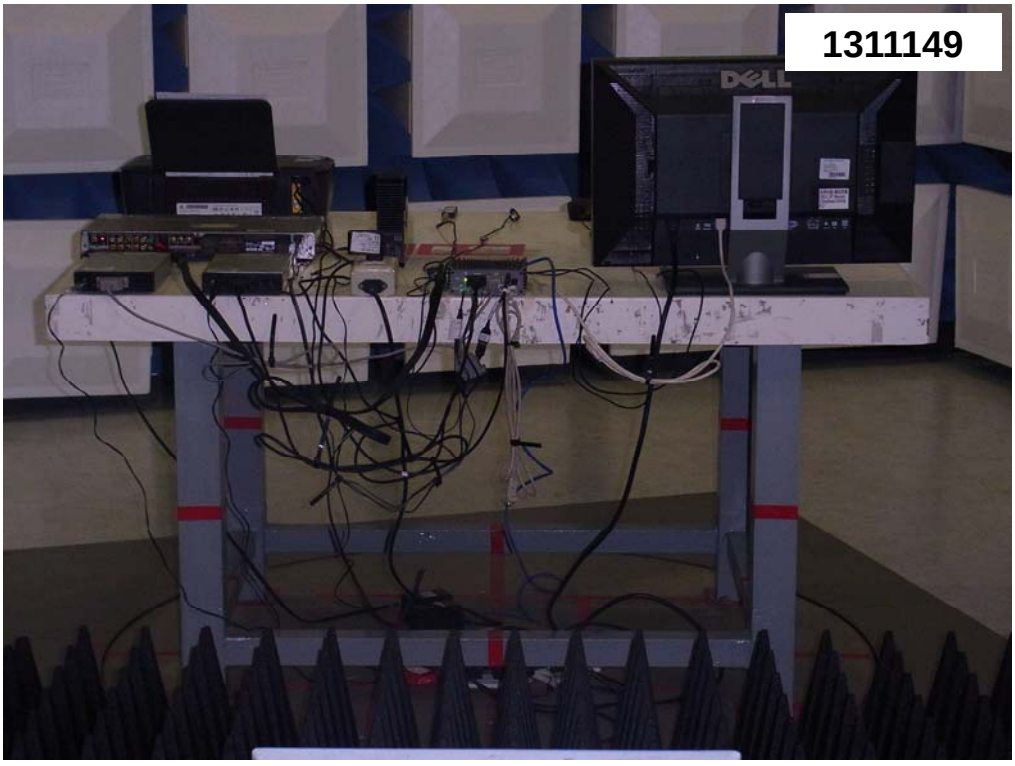


Radiated emission test photos

Above 1 GHz

FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (ADAPTER:ADP-18TB A)





Radiated emission test photos

Above 1 GHz
FULL SYSTEM HDMI 1920*1080/60Hz (AMOS-820-P) (PoE)